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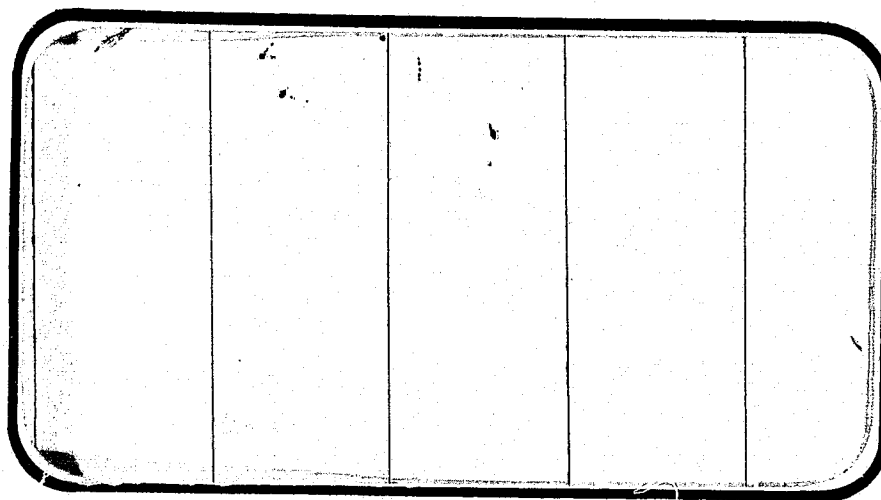
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NASA CR-

141837

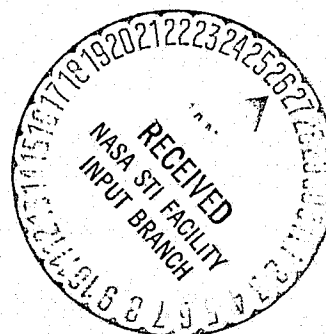


(NASA-CR-141837) RESULTS OF A PRESSURE
LOADS INVESTIGATION ON A 0.030-SCALE MODEL
(451-OTS) OF THE INTEGRATED SPACE SHUTTLE
VEHICLE CONFIGURATION 5 IN THE NASA AMES
RESEARCH CENTER 11 BY 11 FOOT LEG OF THE

N76-15247

G3/18 Unclass
09114

SPACE SHUTTLE



AEROTHERMODYNAMIC DATA REPORT

JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA Management services

SPACE DIVISION



CHRYSLER
CORPORATION

DATE: June 1976

PUBLICATION CHANGE

THE FOLLOWING CHANGES APPLY TO PUBLICATION: Space Shuttle Data Report

TITLE: RESULTS OF A PRESSURE LOADS INVESTIGATION ON A 0.030-SCALE MODEL

(47-OTS) OF THE INTEGRATED SPACE SHUTTLE VEHICLE CONFIGURATION 5 IN THE NASA

AMES RESEARCH CENTER 11x11 FOOT LEG OF THE UNITARY PLAN WIND TUNNEL (IA81A)

NUMBER: DMS-DR-2169 DATE: November 1975 BRANCH: DATAMAN

NASA CR-141,836, Volume 1 N76-15246
NASA CR-141,837, Volume 2 N76-15247
NASA CR-141,838, Volume 3 N76-15248
NASA CR-141,839, Volume 4 N76-15249
NASA CR-141,840, Volume 5 N76-15250
NASA CR-141,841, Volume 6 N76-15251
NASA CR-141,842, Volume 7 N76-15252

Subsequent to publication, the following errors were discovered in the documented pressure tap locations:

- 1) In table IV, the wing station corresponding to $\eta = 0.673$ was erroneously stated as $Y_0 = 300$ instead of $Y_0 = 315$.

(Continued on next page)

Prepared by: G. W. Klug, H. C. Zimmerle

Reviewed by: D. E. Poucher

Approved: J. L. Glynn
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PAGE 1 OF 2

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CORPORATION

June 1976

PUBLICATION CHANGE (Concluded)

DMS-DR-2169

- 2) In table IV and all plotted and tabulated left wing pressure data, tap locations given as $\eta = 0.673$, $x/c \geq 0.775$ should be $\eta = 0.641$ at the same chordwise locations.
- 3) In table VI, spanwise tap locations given as $\eta_v = 0.153, 0.316, 0.600, 0.840$, should be $0.158, 0.317, 0.602, 0.839$, respectively.
- 4) In table VIII, the stated values of SRB axial coordinates X_s and X_s/l_s are erroneous for tap numbers 909-932; tap numbers 870, 882, and 901-908 were deleted from the test but erroneously included in the table.

This publication change presents tables IV, VI, and VIII as revised from the subject publication. Users of the tabulated or plotted pressure data for the left wing should refer to the revised table IV for the correct pressure tap locations.

TABLE IV.
ORBITER WING PRESSURE TAP NUMBERS

η γ_c		ORBITER LEFT WING PRESSURE TAP NUMBERS																NO. OF TAPS	
23	110	γ_c 0 .041 .113 .247 .425 .547 .638 .727 .793																	
		TOP 208 209 210 211 212 213 214 215 216																9 9	
		BOT - - - - -																0	
24	140	γ_c 0 .010 .022 .050 .094 .229 .362 .497 .700 .874 .965 .980 .965																	
		TOP 217 218 219 220 221 222 223 224 225 226 227 228 229																13 34	
		BOT - 230 231 232 233 234 235 236 237 238 239 240 241																12	
24	170	γ_c 0 .010 .020 .040 .066 .163 .246 .340 .437 .545 .639 .749 .849 .955																	
		TOP 242 243 244 245 246 247 248 249 250 251 252 253 254 255																14 61	
		BOT - 256 257 258 259 260 261 262 263 264 265 266 267 268																13	
24	200	γ_c 0 .010 .020 .040 .053 .171 .274 .402 .545 .700 .808 .957 .985 .953 .942																	
		TOP 269 270 271 272 273 274 275 276 277 278 279 280 281 282 -																14 89	
		BOT - 283 284 285 286 287 288 289 290 291 292 293 294 295 296																14	
24	230	γ_c 0 .010 .020 .050 .080 .150 .250 .400 .550 .725 .775 .850 .900 .950																	
		TOP 297 298 299 300 301 302 303 304 305 306 307 308 309 310																14 116	
		BOT - 311 312 313 314 315 316 317 318 319 320 321 322 323																13	
24	300	γ_c .775 .850 .900 .900																	
		TOP 324 325 326 327 328 329 330 331 332																9 140	
		BOT - 336 337 338 339 340 341 342 343																8	
24	315	γ_c 0 .010 .020 .050 .150 .250 .400 .550 .750 .850 .950																	
		TOP 344 345 346 347																3 123	
		BOT 344 345 346 347																4	
24	355	γ_c 0 .010 .020 .050 .150 .250 .400 .550 .750 .850 .950																	
		TOP 344 345 346 347 348 349 350 351 352 353 354 355 356 357																9 159	
		BOT - 358 359 360 361 362 363 364 365 366																9	
24	405	γ_c 0 .010 .020 .050 .150 .250 .400 .550 .750 .850 .950																	
		TOP 367 368 369 370 371 372 373 374 375 376 -																10 179	
		BOT - 377 378 379 380 381 382 383 384 385 386																10	
24	455	γ_c 0 .020 .049 .157 .345 .503 .670 .862																	
		TOP 387 388 389 390 391 392 393 394																8 194	
		BOT - 395 396 397 398 399 400 401																7	
24	505	γ_c 0 .020 .049 .157 .345 .503 .670 .862																	
		TOP 402 403																2 196	
		BOT - -																	

ORBITER RIGHT WING PRESSURE TAP NUMBERS

η γ_c		ORBITER RIGHT WING PRESSURE TAP NUMBERS																NO. OF TAPS	
235	110	γ_c 0 .041 .113 .247 .425 .547 .638 .727 .793																	
		TOP 404 405 406 407 408 409 410 411 412																9 205	
		BOT - - - - -																0	
34	170	γ_c 0 .010 .020 .050 .086 .163 .246 .340 .437 .545 .639 .749 .849 .955																	
		TOP 413 414 415 416 - 417 418 419 420 421																9 222	
		BOT - 422 423 424 425 426 427 428 - 429																8	

TABLE V. ORBITER FUSELAGE PRESSURE TAP NUMBERS

WEN FIVE LOC. - 25-

ORBITER X ₀ ~ IN.			Φ RADIAL LOCATION ~ DEGREES																											
FULL	MODEL	X ₀ /L	0	20	40	55	70	90	105	110	120	135	140	150	151	156	162	165	169	174	180	305	320	340	NO TAPS	Σ TAPS				
235	7.05	0	7																						1	1				
245	735	.008	8					9													10				3	4				
265	795	.023	11	12	13	14	15	16			17			18							19	20	21	22	12	16				
295	8.85	.046	23	24	25	26	27	28			29			30							31	32	33	34	12	28				
325	9.75	.070	35	36	37	38	39	40			41			42							43	44	45	46	12	40				
380	11.40	.112	47	48	49	50	51	52			53			54							55	56	57	58	12	52				
440	13.20	.158																		59					1	53				
450	13.50	.166	60	61	62	63	64	65			66					67			68		69	70	71	72	13	66				
465	13.95	.177													73		74								2	68				
500	15.00	.204	75	76	77	78	79	80			81		82	83				84			85	86	87	88	14	82				
560	16.80	.251	89		90		91	92			93			94				95			96		97		9	91				
625	18.75	.301	98		99		100	101			102			103				104			105		106		9	100				
725	21.75	.378	107		108		109	110			111			112				113			114		115		9	109				
880	26.40	.497	116		117		118	119			120			121				122			123		124		9	118				
980	29.40	.574	125		126																		127		3	121				
1080	32.40	.652	128		129		130	131			132			133				134			135		136		9	130				
1180	35.40	.729	137		138		139	140			141			142							143		144		8	138				
1245	37.35	.779	145		146		147	148	149		150	151		152				153			154		155		11	149				
1300	39.00	.821	156		157		158	159	160		161	162		163							164		165		10	159				
1375	41.25	.879	166		167		168	169	170		171	172		173				174					175		10	169				
1430	42.30	.921	176		177		178	179	180		181	182		183				184					185		10	179				
1480	44.40	.960	186		187		188	189	190		191	192		193				194					195		10	189				
1530	45.30	.999									196	197													2	191				
1530	45.30	.999									198	199													2	193				

L = 1297.0 IN

a. OMS POD. INSIDE

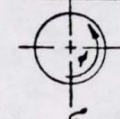
b. OMS POD. OUTSIDE

TABLE VI. ORBITER VERTICAL TAIL PRESSURE TAP
NUMBERS (LEFT SIDE ONLY)

VERTICAL			X/CV											
Z _o	FULL SCALE	MODEL SCALE	η_v	0	.025	.05	.15	.30	.52	.685	.775	.90	No. TAPS	TAPS
550		16.5	.158	430	431	432	433	434	435	436	437		8	8
600		18.0	.317	438	439	440	441	442	443	444	445	446	9	17
690		20.7	.602	447	448	449	450	451	452	453	454	455	9	26
765		22.95	.839	456	457	458	459	460	461	462	463	464	9	35
792		23.76	.925	465	466	467	468	469	470	471	472	473	9	44

TABLE VII. EXTERNAL TANK PRESSURE TAP NUMBERS

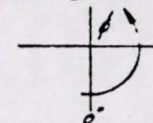
VIEW FWD LOOKING AFT



Xp ~ IN. REL. SCALE	Xpw IN. MODEL SCALE	XT/ LT	φ ~ DEGREES																	NO TAPS
			0	30	60	90	120	135	147	162	180	198	213	225	240	270	300	330		
298/329	8.937/9.251	0	474																1	
346	10.38	0.0092	475	476	477	478	479		480		481		482		483	484	485	486	12	
363	10.89	0.0184	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	16	
403	12.09	0.0400	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	16	
448	13.44	0.0644	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	16	
568	17.04	0.1296	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	16	
628	20.64	0.1944	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	16	
718	21.54	0.2106	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	16	
758	22.74	0.2323	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	16	
803	24.24	0.2594	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	16	
850	25.50	0.2821	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	16	
950	28.50	0.3362	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	16	
1050	31.50	0.3904	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	--	16	
1150	34.50	0.4445	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	16	
1250	37.50	0.4987	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	16	
1350	40.50	0.5528	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	16	
1500	45.00	0.6360	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	16	
1700	51.00	0.7423	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	16	
1900	57.00	0.8506	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	16	
2040	61.20	0.9264	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	16	
2146	64.38	0.9838	775	776	777	778	779		780		781		782		783	784	785	786	12	
STING CAVITY			787																1	
L = 1846.91 IN.																			Σ TAPS	314

TABLE VIII LEFT SRB PRESSURE TAP NUMBERS

VIEW FWD LOOKING AFT



63

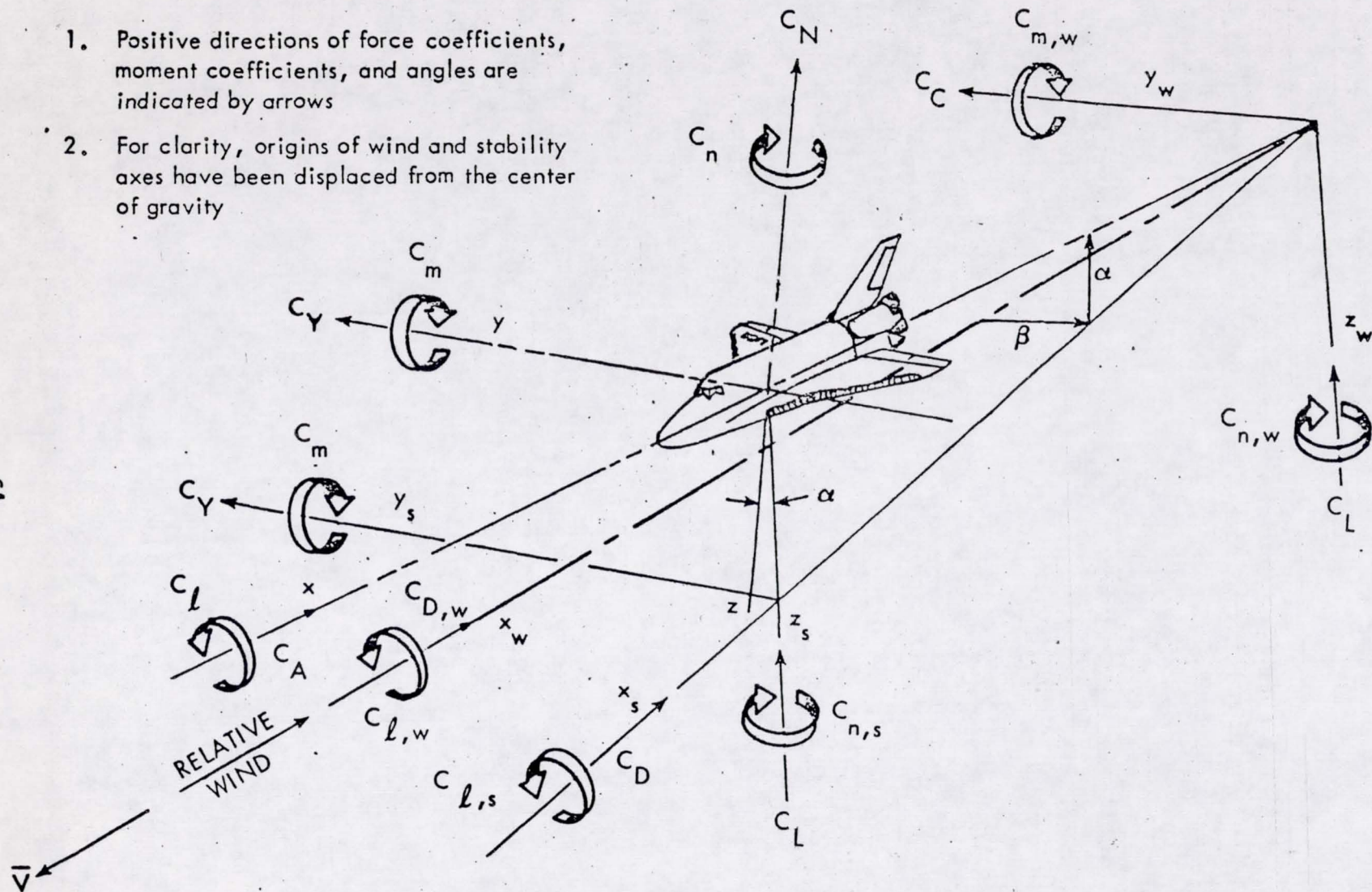
X_3 IN. FULL SCALE	X_3 IN. MODEL SCALE	X_3/L_3	ϕ IN DEGREES										NO. TAPS	Σ NO TAPS
			0	45	90	135	180	225	270	315				
200	6	0	788										1	1
260	7.8	0.0335	789	790	791	792	793	794	795	796			8	9
370	11.1	0.0950	797	798	799	800	801	802	803	804			8	17
400	12.0	0.1118	805	806	807	808	809	810	811	812			8	25
450	13.5	0.1397	813	814	815	816	817	818	819	820			8	33
550	16.5	0.1956	821	822	823	824	825	826	827	828			8	41
700	21.0	0.2794	829	830	831	832	833	834	835	836			8	49
850	25.5	0.3632	837	838	839	840	841	842	843	844			8	57
1050	31.5	0.4250	845	846	847	848	849	850	851	852			8	65
1250	37.5	0.5867	853	854	855	856	857	858	859	860			8	73
1450	43.5	0.6985	861	862	863	864	865	866	867	868			8	81
* 1503	45.09	0.7280	869				871		872				3	84
* 1505	45.15	0.7290	873		874		875		876				4	88
* 1517	45.51	0.7360	877		878		879		880				4	92
* 1519	45.57	0.737	881				883		884				3	95
1650	49.5	0.8102	885	886	887	888	889	890	891	892			8	103
1750	52.5	0.8661	893	894	895	896	897	898	899	900			8	111
* 1832.9	54.99	0.9120	909		910		911		912				4	115
* 1833.9	55.02	0.9130	913		914		915		916				4	119
1872.2	56.17	0.9344	917	918	919	920	921	922	923	924			8	127
1911.7	57.35	0.9565	925	926	927	928	929	930	931	932			8	135
SKIRT BASE			933			934			935				3	138
NOZZLE BASE &			936										1	139

 $L_3 = 1789.60$ IN.

* PRESSURE TAPS AT 77.5 IN. RADIUS ON THE STRUCTURAL RINGS

Notes:

1. Positive directions of force coefficients, moment coefficients, and angles are indicated by arrows
2. For clarity, origins of wind and stability axes have been displaced from the center of gravity



a. Forces and Moments
Figure 1. - Axis Systems.

DATE: November 1976

PUBLICATION CHANGE

THE FOLLOWING CHANGES APPLY TO PUBLICATION: Space Shuttle Data Reports

TITLE: RESULTS OF A PRESSURE LOADS INVESTIGATION ON A 0.030-SCALE MODEL
(47-OTS) OF THE INTEGRATED SPACE SHUTTLE VEHICLE CONFIGURATION 5 IN THE NASA
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NUMBER: DMS-DR-2169 DATE: November 1975 BRANCH: DATAMAN

NASA CR-141,836, Volume 1
NASA CR-141,837, Volume 2
NASA CR-141,838, Volume 3
NASA CR-141,839, Volume 4
NASA CR-141,840, Volume 5
NASA CR-141,841, Volume 6
NASA CR-141,842, Volume 7

Subsequent to publication of the test data report, it was discovered that the correct SRB base area was 236.46 ft². Initial data reduction done at the test facility was performed using a value of 201.07 ft² as presented in the pre-test report.

This publication change presents corrected test data in the form of plotted data figures, tabulated listings and text information as presented in the data report. Additionally, CAB and CAC coefficients have been added for all balances. This publication change replaces all the force test data contained in Volumes 1 and 2.

Equations used to correct the CAB, CAF and CYNF coefficients are as follows:

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PAGE 1 OF 2

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CHRYSLER
CORPORATION

DATE:

PUBLICATION CHANGE

THE FOLLOWING CHANGES APPLY TO PUBLICATION: Space Shuttle Data Reports

TITLE: _____

NUMBER: DMS-DR-2169 DATE: November 1975 BRANCH: DATAMAN

$$CAB_{new} = CAB_{old} * 236.46/201.07$$

$$CAF_{new} = CA - CAC - CAB_{new}$$

$$CYNF_{new} = CYNF_{old} - (CAF_{new} - CAF_{old}) * 250.5/1297.0$$

A complete list of data and page replacements follows.

All Volumes:

Page 26 AbsRB was listed as 201.07, should be 236.46.

Page 55 Max cross-sectional area listed as 201.07 full scale and 0.1809 model scale, should be 236.46 and 0.2128, respectively

Volume 1:

Data Figures 4-51, pages 1-843 replaced.

Volume 2:

Force data tabulation completely replaced, pages 1-113.

PAGE 2 OF 2

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DATA REDUCTION (Continued)

$$C_{A_{b_{SRB}}} = -C_{P_{b_{SRB}}} \frac{A_{b_{SRB}}}{S}$$

$$C_{m_{b_o}} = - \frac{x_{b_o}}{l_b} C_{N_{b_o}} + \frac{z_{b_o}}{l_b} C_{A_{b_o}}$$

$$C_{m_{bf}} = - \frac{x_{bf}}{l_b} C_{N_{bf}}$$

$$C_{N_{f_o}} = C_{N_o} - C_{N_{b_o}} - C_{N_{bf}}$$

$$C_{m_{f_o}} = C_{m_o} - C_{m_{b_o}} - C_{m_{bf}}$$

$$C_{A_{f_o}} = C_{A_o} - C_{A_{b_o}}$$

$$C_{A_{f_{ET}}} = C_{A_{ET}} - C_{A_{b_{ET}}}$$

$$C_{A_{f_{SRB}}} = C_{A_{SRB}} - C_{A_{b_{SRB}}}$$

$$A_{b_{ET}} = 597.56 \text{ ft}^2$$

$$A_{bf} = 142.6 \text{ ft}^2$$

$$A_{b_o} = 314.10 \text{ ft}^2$$

$$A_{b_{OMS}} = 122.57 \text{ ft}^2$$

DATA REDUCTION (Concluded)

$$A_{bSRB} = 236.46 \text{ ft}^2$$

$$i_{b_0} = 14.75^\circ$$

$$x_{bf} = 1329.7 \text{ in.}$$

$$x_{b_0} = 1263.0 \text{ in.}$$

$$z_{b_0} = 336.5 \text{ in.}$$

Base pressure coefficients represented the average pressure on the respective bases. Body flap pressure coefficients were as given by figure 20.

Right SRB forces and moments were calculated as a mirror image of left SRB forces and moments about $\beta = 0$:

$$\left(\begin{array}{l} \text{Coefficient on} \\ \text{Right SRB} \\ \text{at } +\beta \end{array} \right) = \left(\begin{array}{l} \text{Coefficient on} \\ \text{Left SRB} \\ \text{at } -\beta \end{array} \right)$$

Forces and moment on each component (Orbiter, ET, left SRB, and right SRB) were interpolated versus the respective angle of attack and angle of sideslip of each component to nominal angles. These data were then added to provide total integrated vehicle forces and moments.

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT : BOOSTER SOLID ROCKET MOTOR - S21

GENERAL DESCRIPTION : _____

MODEL SCALE: 0.030.

DRAWING NUMBER : VL72-000143D, VL77-000066

<u>DIMENSIONS :</u>	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length (Includes nozzle), In.	<u>1789.40</u>	<u>53.682</u>
Tank Diameter, In.	<u>146.00</u>	<u>4.38</u>
Aft shroud dia., In.	<u>192.00</u>	<u>5.76</u>
Fineness Ratio	<u>9.3198</u>	<u>9.3198</u>
Area - Ft ²		
Max Cross-Sectional	<u>236.46</u>	<u>0.2128</u>
Planform	_____	_____
Wetted	_____	_____
Base	_____	_____
WP of BSRM centerline (Z _T)	<u>400.0</u>	<u>1.200</u>
FS of BSRM nose (X _T)	<u>743.0</u>	<u>22.29</u>
BP of BSRM centerline (Y _T)	<u>250.5</u>	<u>7.515</u>

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: EXTERNAL TANK - T₂₀

GENERAL DESCRIPTION: _____

NOTE: (Dimensions are to tank structural OML, TBS not included.)

MODEL SCALE: 0.030 .

DRAWING NUMBER VL72-000143D, VL78-000063

<u>DIMENSION:</u>	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length , In.	<u>1844.275</u>	<u>55.328</u>
Max Width Dia., In.	<u>331.00</u>	<u>9.93</u>
Max Depth	<u> </u>	<u> </u>
Fineness Ratio	<u>5.687</u>	<u>5.687</u>
Area - Ft ²		
Max Cross-Sectional	<u>594.678</u>	<u>0.053</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

November, 1975

DMS-DR-2169
NASA CR-141,837

RESULTS OF A PRESSURE LOADS INVESTIGATION ON A
0.030-SCALE MODEL (47-OTS) OF THE INTEGRATED
SPACE SHUTTLE VEHICLE CONFIGURATION 5 IN THE
NASA AMES RESEARCH CENTER 11 X 11 FOOT LEG OF THE
UNITARY PLAN WIND TUNNEL (IA81A)

VOLUME 2 OF 7

by

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by

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Houston, Texas.

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Test Number: ARC 11-019-1
NASA Series Number: IA81A
Model Number: 47-OTS
Test Dates: 26 July through 8 August 1974
Occupancy Hours: 184

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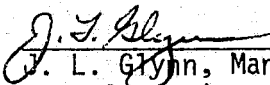
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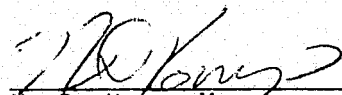
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E. Chee, Rockwell International Space Division

ABSTRACT

Results of wind tunnel test IA81A are presented. The model was a 0.030-scale representation of the integrated Space Shuttle Vehicle Configuration 5. Testing was conducted in the NASA Ames Research Center 11 x 11 foot leg of the Unitary Plan Wind Tunnel to investigate pressure distributions for aeroloads analyses at Mach numbers from 0.9 through 1.4. Angles of attack and sideslip were varied from -6 to +6 degrees.

This report consists of 7 volumes of force and pressure data. They are arranged in the following manner:

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CNF versus CLMF
- B) CY, CYNF, CBL versus BETAI
CY versus CYNF
CY versus CBL
- C) CHEO, CHEI versus ALPHAO
- D) CABO versus ALPHAO
- E) CABET versus ALPHAT
- F) CABSRB versus ALPHAL
- G) CABSRB versus ALPHAR
- H) CAFAFO versus MACH
- I) XAC/LV versus MACH
- J) CNALFA versus MACH
- K) YAC/LV versus MACH
- L) CYBETA versus MACH
- M) CHEO, CHEI versus MACH
- N) DCAF, DCNF, DCLMF versus MACH
- O) CP versus X/LB
- P) CP versus X/LT
- Q) CP versus X/LS
- R) CP versus X/CV
- S) CP versus X/CW

NOMENCLATURE General

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
a		speed of sound; m/sec, ft/sec
C _p	CP	pressure coefficient; $(p_1 - p_\infty)/q$
M	MACH	Mach number; V/a
p		pressure; N/m ² , psf
q	Q(NSM) Q(PSF)	dynamic pressure; $1/2\rho V^2$, N/m ² , psf
RN/L	RN/L	unit Reynolds number; per m, per ft
V		velocity; m/sec, ft/sec
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
ϕ	PHI	angle of roll, degrees
ρ		mass density; kg/m ³ , slugs/ft ³

Reference & C.G. Definitions

Ab		base area; m ² , ft ²
b	BREF	wing span or reference span; m, ft
c.g.		center of gravity
$\frac{l}{c}$ _{REF}	LREF	reference length or wing mean aerodynamic chord; m, ft
S	SREF	wing area or reference area; m ² , ft ²
	MRP	moment reference point
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis

SUBSCRIPTS

b	base
l	local
s	static conditions
t	total conditions
∞	free stream

ORIGINAL PAGE IS :
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NOMENCLATURE (Continued)

Body-Axis System

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
C_N	CN	normal-force coefficient; $\frac{\text{normal force}}{qS}$
C_A	CA	axial-force coefficient; $\frac{\text{axial force}}{qS}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_{A_b}	CAB	base-force coefficient; $\frac{\text{base force}}{qS}$ $-A_b(p_b - p_\infty)/qS$
C_{A_f}	CAF	forebody axial force coefficient, $C_A - C_{A_b}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS l_{REF}}$
C_n	CYN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$
C_l	CL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$

Stability-Axis System

C_L	CL	lift coefficient; $\frac{\text{lift}}{qS}$
C_D	CD	drag coefficient; $\frac{\text{drag}}{qS}$
C_{D_b}	CDB	base-drag coefficient; $\frac{\text{base drag}}{qS}$
C_{D_f}	CDF	forebody drag coefficient; $C_D - C_{D_b}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS l_{REF}}$
C_n	CLN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$
C_l	CSL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$
L/D	L/D	lift-to-drag ratio; C_L/C_D

NOMENCLATURE (Continued)
Additions to Standard Nomenclature

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Defintion</u>
A_{bET}		external tank base area, ft^2
A_{bf}		body flap upper surface area, ft^2
A_{bo}		Orbiter base area, ft^2
A_{bOMS}		OMS pod base area, ft^2
A_{bSRB}		SRB base area, ft^2
$C_{A_{bET}}$	CABET	external tank base axial force coefficient
$C_{A_{bo}}$	CABO	Orbiter base axial force coefficient
$C_{A_{bSRB}}$	CABSRB	SRB base axial force coefficient
$C_{A_{ET}}$		external tank total axial force coefficient
$C_{A_{fET}}$		external tank forebody axial force coefficient
$C_{A_{fo}}$		Orbiter forebody axial force coefficient
$C_{A_{fSRB}}$		SRB forebody axial force coefficient
C_{A_o}		Orbiter total axial force coefficient

NOMENCLATURE (Continued)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
$C_{p_{b_{OMS}}}$		OMS pod average base pressure coefficient
$C_{p_{b_{SRB}}}$		SRB average base pressure coefficient
C_{p_i}		pressure coefficient associated with i^{th} tap
ET		external tank
i_{b_o}		Orbiter base incidence angle to a line of constant X_o , deg.
l_b		Orbiter fuselage length, in.
MRP		moment reference point
OMS		orbital maneuvering system
RN/FT	RN/L	unit Reynolds number, million per foot
S_e		elevon surface area, ft^2
SRB		solid rocket booster
X_{bf}		longitudinal distance from MRP to bodyflap area centroid, in.
X_{b_o}		longitudinal distance from MRP to Orbiter base area centroid, in.
X/C	X/CW	chordwise location on wing
X/Cv	X/CV	chordwise location on vertical tail
X_o		Orbiter longitudinal station, in.
X_o/L_o	X/LT	location on Orbiter, fraction of Orbiter body length aft of Orbiter nose

NOMENCLATURE (Continued)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
$C_{A_{SRB}}$		SRB total axial force coefficient
\bar{C}_e		elevon mean aerodynamic chord, in
$C_{h_{e_I}}$	CHEI	inboard elevon hinge moment coefficient
$C_{h_{e_o}}$	CHEO	outboard elevon hinge moment coefficient
$C_{m_{bf}}$	CMBF	bodyflap upper surface pitching moment coefficient
$C_{m_{b_o}}$	CMBO	Orbiter base pitching moment coefficient
$C_{m_{f_o}}$		Orbiter forebody pitching moment coefficient
C_{m_o}		Orbiter total pitching moment coefficient
$C_{n_{bf}}$		bodyflap upper surface normal force coefficient
$C_{N_{b_o}}$		Orbiter base normal force coefficient
$C_{N_{f_o}}$		Orbiter forebody normal force coefficient
C_{N_o}		Orbiter total normal force coefficient
$C_{P_{b_{ET}}}$		external tank average base pressure coefficient
$C_{P_{bf}}$		bodyflap average upper surface pressure coefficient

NOMENCLATURE (Continued)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
$C_{P_{b_0}}$		Orbiter average base pressure coefficient
X_S	XS	SRB longitudinal station, in.
X_S/l_S	X/LS	location on SRB, fraction of SRB body length aft of SRB nose
X_T	XT	external tank longitudinal station, in.
X_T/l_T	X/LT	location on ET, fraction of ET body length aft of ET nose
Y_O	YO	Orbiter lateral station, in.
Y_S	YS	SRB lateral station, in.
Y_T	YT	external tank lateral station, in.
Z_{b_0}		vertical distance from MRP to Orbiter base area centroid, in.
Z_O	ZO	Orbiter vertical station, in.
Z_S	ZS	SRB vertical station, in
Z_T	ZT	external tank vertical station, in.
α_O	ALPHAO	Orbiter angle of attack, degrees
α_{S_L}	ALPHAL	left SRB angle of attack, degrees
α_{S_R}	ALPHAR	right SRB angle of attack, degrees
α_T	ALPHAT	external tank angle of attack, degrees
β_O	BETAO	Orbiter angle of sideslip, degrees

NOMENCLATURE (Continued)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
β_{B_L}	BETAL	left SRB angle of sideslip, degrees
β_{S_R}	BETAR	right SRB angle of sideslip, degrees
β_T	BETAT	external tank angle of sideslip, degrees
δ_{e_i}	ELV-IB	inboard elevon deflection angle, degrees
δ_{e_o}	ELV-OB	outboard elevon deflection angle, degrees
δ_R	RUDDER	rudder deflection angle, degrees
δ_{SB}	SPDBRK	speedbrake deflection angle, degrees
η	2Y/b	spanwise station, 2Y/b
ϕ	PHI	radial location, degrees
C_{A_c}		orbiter sting cavity axial force coefficient
β_I	BETAI	integrated vehicle angle of sideslip, degrees
α_I	ALPHAI	integrated vehicle angle of attack, degrees
X/LB	X/LB	longitudinal position/body length (fuselage)
Y/BW	Y/BW	local spanwise position/wing span
Z/BV	Z/BV	local spanwise position/vertical tail span
SRM	SRM	solid rocket motor

NOMENCLATURE (Continued)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
C_{n_f}	CYNF	forebody yawing moment coefficient, body axis system
C_{m_f}	CLMF	forebody pitching moment coefficient
C_{N_f}	CNF	forebody normal force coefficient
$C_{A_{f_0}}$	CAFAFO	forebody axial force coefficient at zero alpha
C_{N_α}	CNALFA	derivative of normal-force coefficient with respect to alpha, per degree
X_{cp}/ℓ_v	XAC/LV	vertical tail chordwise center of pressure location
Y_{cp}/ℓ_v	YAC/LV	vertical tail spanwise center of pressure location
C_{Y_β}	CYBETA	derivative of side-force coefficient with respect to beta, per degree
ΔC_{A_f}	DCAF	incremental forebody axial force coefficient
ΔC_{N_f}	DCNF	incremental forebody normal force coefficient
ΔC_{m_f}	DCLMF	incremental forebody pitching moment coefficient
CHM1	CHM1	contributions of the forward bridge to the inboard elevon hinge moment coefficient
CHM2	CHM2	contributions of the aft bridge to the inboard elevon hinge moment coefficient
CHM3	CHM3	contributions of the forward bridge to the outboard elevon hinge moment coefficient
CHM4	CHM4	contributions of the aft bridge to the outboard elevon hinge moment coefficient

NOMENCLATURE (Concluded)

Data Set Identifiers

The fourth letter of the data set identifier indicates the component, e.g., RETT04.

Force

O	Orbiter
T	External Tank
L	Left SRB
R	Right SRB
H	Orbiter - Hinge moment
I	Integrated Vehicle

Pressure

B	Orbiter Fuselage
L	Left Wing lower surface
U	Left Wing upper surface
W	Right Wing lower surface
R	Right Wing upper surface
V	Left Vertical Tail
S	SRM Booster
T	External Tank
C	Miscellaneous Orifices

CONFIGURATIONS INVESTIGATED

The model was a 0.030-scale representation of the Rockwell International Space Shuttle Integrated Vehicle. The Orbiter was per VL70-000140A/B lines. The external tank represented VL78-000063 lines. The solid rocket motors were per VL72-000066 lines. Figures 2a, b, and c present sketches of the model configuration. Model simulation included attach structure protuberances, fairings, fuel feed lines, vent lines, etc. (basic model construction was of ARMC0 17-4 steel).

Model forces and moments were measured by 3 Task Corporation six component balances. A 2.5 in. MK XXA was mounted in the Orbiter. A 2.0 in. MK IIIC was mounted in the external tank. A 1.5 in. MK IIC was mounted in the LH SRB. The balances are attached to stings entering each component through the base areas. Figures 2m and 2n show the balance locations in the model. The RH wing inboard and outboard elevon panels are instrumented with hinge moment gages as shown in figure 1c.

Surface and base pressures were measured on the Orbiter, external tank and solid rocket motors. The Orbiter was instrumented with a total of 480 pressure-orifices, of which 6 were base and cavity pressures. The external tank was instrumented with a total of 314 pressure orifices. The LH SRM was instrumented with a total of 149 pressure orifices. Orifice locations are presented in tables IV through VIII and figures 2d through 2 l.

The following model shorthand configuration notation was used:

LVA' = AT₂₈ thru 32 FL₁₀ FL₁₁ FR₁₀ N₈₆ O₁ PT₁₂ PT₂₂₋₂₇ S₂₁ T₂₈

CONFIGURATIONS INVESTIGATED (Concluded)

AT ₂₈ thru 32	=	Attach hardware structure
FL ₁₀	=	LH ₂ feedline
FL ₁₁	=	LO ₂ feedline
FR ₁₀	=	Umbilical door fairing.
N ₈₆	=	Nozzles for solid rocket boosters
O ₁	=	B ₂₆ C ₉ E ₄₄ F ₉ M ₁₆ N ₂₈ R ₅ V ₈ W ₁₁₆
PT ₁₂	=	Lightning rod on nose of T ₂₈
PT ₂₂ thru 27	=	External protuberance
S ₂₁	=	Solid rocket boosters
T ₂₈	=	External tank

Where model dimensions are as described in table III. The LVA' configuration was tested with speed brake gap both sealed and open and with elevon gap both sealed and open. The (instrumented) right elevon gap was sealed by a permanent sponge rubber seal. The left elevon gap was sealed with plaster. Speed brake gaps were sealed by red wax.

TEST FACILITY DESCRIPTION

The Ames Research Center Unitary Plan 11 by 11 Foot Transonic Wind Tunnel is a closed-circuit, air-medium, variable-density facility capable of attaining Mach numbers from 0.6 to 1.4 at Reynolds numbers from $1.7 \times 10^6/\text{ft}$ to $9.4 \times 10^6/\text{ft}$. The test section is 22 feet long, and models are installed on internal strain-gauge balances mounted to sting-type support systems.

Shadowgraph and Schlieren photographic equipment is available, and pressure transducer instrumentation is provided.

Tunnel operating temperature is 580°R. Extended high Reynolds number runs are restricted by power availability.

DATA REDUCTION

All balances data were reduced to coefficients about a moment reference point located at:

$$X_T = 976.0 \text{ in.}$$

$$Y_T = 0.0 \text{ in.}$$

$$Z_T = 400.0 \text{ in.}$$

The following reference dimensions were used:

$$S = 2690.0 \text{ ft}^2$$

$$x_b = 1297.0 \text{ in.}$$

Hinge moment data were reduced about their respective hinge lines using the following reference values:

$$S_e = 210.0 \text{ ft}^2$$

$$\bar{c}_e = 90.7 \text{ in.}$$

Base and forebody coefficients were calculated as follows:

$$C_{N_{b_o}} = -C_{P_{b_o}} \frac{A_{b_o}}{S} \tan i_{b_o} - C_{P_{bOMS}} \frac{A_{bOMS}}{S}$$

$$C_{N_{bf}} = -C_{P_{bf}} \frac{A_{bf}}{S}$$

$$C_{A_{b_o}} = -C_{P_{b_o}} \frac{A_{b_o}}{S} - C_{P_{bOMS}} \frac{A_{bOMS}}{S}$$

$$C_{A_{bET}} = -C_{P_{bET}} \frac{A_{bET}}{S}$$

DATA REDUCTION (Continued)

$$C_{A_{b_{SRB}}} = -C_{p_{b_{SRB}}} \frac{A_{b_{SRB}}}{S}$$

$$C_{m_{b_o}} = - \frac{x_{b_o}}{l_b} C_{N_{b_o}} + \frac{z_{b_o}}{l_b} C_{A_{b_o}}$$

$$C_{m_{bf}} = - \frac{x_{bf}}{l_b} C_{N_{bf}}$$

$$C_{N_{f_o}} = C_{N_o} - C_{N_{b_o}} - C_{N_{bf}}$$

$$C_{m_{f_o}} = C_{m_o} - C_{m_{b_o}} - C_{m_{bf}}$$

$$C_{A_{f_o}} = C_{A_o} - C_{A_{b_o}}$$

$$C_{A_{f_{ET}}} = C_{A_{ET}} - C_{A_{b_{ET}}}$$

$$C_{A_{f_{SRB}}} = C_{A_{SRB}} - C_{A_{b_{SRB}}}$$

$$A_{b_{ET}} = 597.56 \text{ ft}^2$$

$$A_{bf} = 142.6 \text{ ft}^2$$

$$A_{b_o} = 314.10 \text{ ft}^2$$

$$A_{b_{OMS}} = 122.57 \text{ ft}^2$$

DATA REDUCTION (Concluded)

$$A_{b_{SRB}} = 201.07 \text{ ft}^2$$

$$i_{b_o} = 14.75^\circ$$

$$x_{bf} = 1329.7 \text{ in.}$$

$$x_{b_o} = 1263.0 \text{ in.}$$

$$z_{b_o} = 336.5 \text{ in.}$$

Base pressure coefficients represented the average pressure on the respective bases. Body flap pressure coefficients were as given by figure 20.

Right SRB forces and moments were calculated as a mirror image of left SRB forces and moments about $\beta = 0$:

$$\left(\begin{array}{l} \text{Coefficient on} \\ \text{Right SRB} \\ \text{at } +\beta \end{array} \right) = \left(\begin{array}{l} \text{Coefficient on} \\ \text{Left SRB} \\ \text{at } -\beta \end{array} \right)$$

Forces and moment on each component (Orbiter, ET, left SRB, and right SRB) were interpolated versus the respective angle of attack and angle of sideslip of each component to nominal angles. These data were then added to provide total integrated vehicle forces and moments.

TABLE I.





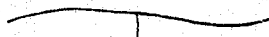

TEST : IA81A			DATE : 8-23-74
TEST CONDITIONS			
MACH NUMBER	REYNOLDS NUMBER (per foot)	DYNAMIC PRESSURE (pounds/sq. foot)	STAGNATION TEMPERATURE (degrees Fahrenheit)
0.60	2.25×10^6	275	120
0.90	2.25×10^6	370	120
1.10	2.25×10^6	422	120
1.25	2.25×10^6	448	120
1.40	2.25×10^6	461	120
1.1	3.00×10^6	562	120
0.6	3.20×10^6	393	120
0.9	3.50×10^6	589	120

BALANCE UTILIZED: Task Corp. 2.5" MK XXA, 2.0" MKIIC, 1.5" MKIIC

	CAPACITY:			COEFFICIENT TOLERANCE:
	2.5"	2.0"	1.5"	
NF	6000	1800	1000	_____
SF	3000	900	500	_____
AF	600	500	100	_____
PM				_____
RM	4000	1000	800	_____
YM				_____

COMMENTS:

TABLE II.

TEST: IABIA 11-019-1		DATA SET/RUN NUMBER COLLATION SUMMARY										DATE: 8-23-74									
DATA SET IDENTIFIER	CONFIGURATION	SCHD.								ALPHA α											
		α	β	$S_{1/2}$	S_R	S_{SB}	M	RN/ft	$\beta=0$	-6	-4	-2	0	2	4	6	8	10			
RETOO1	LVA' W/SB HL UNSEALED	I	O	%	O	55	1.1	3.0	1												
2	 SEALED	E					0.6	3.2	2												
3		E					0.9	3.5	3												
(NOTE) 4		E					1.1	3.0	4												
(NOTE) 5		I	↓	↓		Y	1.25	2.25	5												
6	LVA' BASIC LAUNCH VEHICLE	B	B	8/4		O	0.6	↓		11	10		6		7		8	9			
7	LVA' W/ LEFT ELEVON HL UNSEALED	A	A				0.9	↓		18	17	16	12	13	14	15					
8		↓	↓				1.1	3.0					19	20	21*						
9		↓	↓				1.1	2.25		25	24	23	26	27	28	22					
10	LVA' W/ LEFT ELEVON HL SEALED	E	O				1.1	↓	29												
11		A	A	↓			1.25			30	31	32	33	34	35	36					
12		A	A	8/0			1.4			43	44	45	46	47	**48/50	49					
13		B	B	8/0			0.6			42	41		37		38		39	40			
14		A	A	8/4			1.4			51	52	53	***54	55	56	57					
15				8/6			0.9			65	66	67	68	69	70	71					
16				8/6			1.1			58	59	60	61	62	63	64					
17		↓	↓	10/4	↓	Y	0.9	Y		85	86	87	88	89	90	91					
SEE SUPPLEMENTARY SCHEDULE ON FOLLOWING PAGE																					

* RUN 21 $\beta = -6^\circ$ MISSING

*** RUN 48 $\alpha=4, \beta=-6, -4, 0, 4$

*** RUN 56 $\alpha=0, \beta=-6, -4, -2, 0, 2, 4, 6$

NOTE: DIS 4 & 5 LOST DURING TEST

TABLE II (Continued)

TEST: IA81A 11-019-1

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 8-23-74

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		ALPHA ~ α														
		α	β	$\delta e/\delta e_0$	δR	δ_{SB}	M	RN/ft	$\beta=0$	-6	-4	-2	0	2	4	6	8	10
RETO18	LVA' W/ LEFT ELEVON HL SEALED	G	G	10/4	0	0	1.1	2.25		92	93		94		95	96		
19		C	C	↓			1.25				97		98		99			
20		E	E	0/0			1.4						72					
21		~	~	~			1.25						74					
22							1.1						76					
23							1.4		73									
24							1.25		75									
25		↓	↓				1.1		77									
26		A	A	Y	Y	Y	0.9	Y		78	79	80	81	82	83	84		

SEE SUPPLEMENTARY SCHEDULE ON FOLLOWING PAGE.

TYPE OF DATA
 α OR β
SCHEDULES

COEFFICIENT SCHEDULES

IDVAR (1)	IDVAR (2)	NDV
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
13	13	13
14	14	14
15	15	15
16	16	16
17	17	17
18	18	18
19	19	19
20	20	20
21	21	21
22	22	22
23	23	23
24	24	24
25	25	25
26	26	26
27	27	27
28	28	28
29	29	29
30	30	30
31	31	31
32	32	32
33	33	33
34	34	34
35	35	35
36	36	36
37	37	37
38	38	38
39	39	39
40	40	40
41	41	41
42	42	42
43	43	43
44	44	44
45	45	45
46	46	46
47	47	47
48	48	48
49	49	49
50	50	50
51	51	51
52	52	52
53	53	53
54	54	54
55	55	55
56	56	56
57	57	57
58	58	58
59	59	59
60	60	60
61	61	61
62	62	62
63	63	63
64	64	64
65	65	65
66	66	66
67	67	67
68	68	68
69	69	69
70	70	70
71	71	71
72	72	72
73	73	73
74	74	74
75	75	75
76	76	76
77	77	77
78	78	78
79	79	79
80	80	80
81	81	81
82	82	82
83	83	83
84	84	84
85	85	85
86	86	86
87	87	87
88	88	88
89	89	89
90	90	90
91	91	91
92	92	92
93	93	93
94	94	94
95	95	95
96	96	96
97	97	97
98	98	98
99	99	99
100	100	100

SEE PAGE 31

TABLE II (Continued)

COMPONENT	DATASET IDENTIFIER	INDEPENDENT VARIABLES		FORCE COEFFICIENT SCHEDULE							
Orbiter	RETOXX	BETA0	ALPHA0	CNF	CLMF	CA	CY	CYNF	CBL	*CABT	CAF
External Tank	RETTXX	BETAT	ALPHAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
Left SRB	RETLXX	BETAL	ALPHAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
Hinge Moment	RETHXX	BETA0	ALPHA0	CHEI	CHEO	CHM1	CHM2	CHM3	CHM4		

* Where CABT is $C_{A_b} + C_{A_c}$ for each vehicle component.

TABLE II (Concluded)

α or β Schedules

		Schedule <u>A</u>						
β	α	-6	-4	-2	0	2	4	6
-6		-	x	x	x	x	x	-
-4		x	x	-	x	-	x	x
-2		x	-	x	-	x	-	x
0		x	x	-	x	-	x	x
2		x	-	x	-	x	-	x
4		x	x	-	x	-	x	x
6		-	x	x	x	x	x	-

		Schedule <u>B</u>				
β	α	-4	0	4	8	10
-6			x			
-4		x	x	x		
0		x	x	x	x	x
4		x	x	x		
6			x			

		Schedule <u>G</u>				
β	α	-6	-4	0	4	6
-6				x		
-4			x	x	x	
0		x	x	x	x	x
4			x	x	x	
6				x		

Schedule C

$$\beta = \pm 4, 0, \alpha = \pm 4, 0$$

Schedule E

$$\beta = 0, \alpha = -6, -4, -2, 0, 2, 4, 6$$

Schedule I

$$\beta = 0, \alpha = -6, -4, -2, 0, 2, 4, 6, 8$$

TABLE III. - MODEL DIMENSIONAL DATA

MODEL COMPONENT: ATTACH STRUCTURE - AT₂₈

GENERAL DESCRIPTION: Rear orbiter to ET attach structure (LH and RH). 2 Members.

MODEL SCALE: 0.030

MODEL DRAWING NO.: _____

DRAWING NO.: VL78-000063, -000062B

DIMENSIONS:	MEMBER		FULL SCALE	MODEL SCALE
	#1	X _O	<u>1317.00</u>	<u>39.51</u>
		Y _O	<u>- 96.50 (LH)</u>	<u>- 2.895</u>
			<u>96.50 (RH)</u>	<u>2.895</u>
		Z _O	<u>267.50</u>	<u>8.025</u>
		X _T	<u>2058.00</u>	<u>61.740</u>
		Y _T	<u>- 125.68 (LH)</u>	<u>- 3.770</u>
			<u>125.68 (RH)</u>	<u>3.770</u>
		Z _T	<u>515.5</u>	<u>15.465</u>
	#2	X _O	<u>1317.00</u>	<u>39.51</u>
		Y _O	<u>- 96.50 (LH)</u>	<u>- 2.895</u>
			<u>96.50 (RH)</u>	<u>2.895</u>
		Z _O	<u>267.50</u>	<u>8.025</u>
		X _T	<u>1872.00</u>	<u>56.160</u>
		Y _T	<u>-125.68 (LH)</u>	<u>- 3.770</u>
			<u>125.68 (RH)</u>	<u>3.770</u>
		Z _T	<u>504.5</u>	<u>15.135</u>
Diameter, In.	#1		<u>11.5</u>	<u>0.345</u>
	#2		<u>15.5</u>	<u>0.465</u>

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: ATTACH STRUCTURE - AT₂₀

GENERAL DESCRIPTION: Right-hand umbilical fairing to ET cross member attach structure (1 member).

MODEL SCALE: 0.030

MODEL DRAWING NO.: _____

DRAWING NO.: VL78-000062B, -Martin Marietta P2600207000

DIMENSIONS:

		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Umbilical fairing attach point:	X _O	<u>1317.00</u>	<u>39.510</u>
	Y _O	<u>66.316</u>	<u>1.989</u>
	Z _O	<u>247.182</u>	<u>7.415</u>
	X _T	<u>2058.683</u>	<u>61.740</u>
	Y _T	<u>66.316</u>	<u>1.989</u>
	Z _T	<u>583.683</u>	<u>17.510</u>
ET attach point:	X _T	<u>2058.00</u>	<u>61.740</u>
	Y _T	<u>- 12.00</u>	<u>- 0.360</u>
	Z _T	<u>568.25</u>	<u>17.048</u>
	X _O	<u>1317.00</u>	<u>39.510</u>
	Y _O	<u>- 12.00</u>	<u>- 0.36</u>
	Z _O	<u>60.75</u>	<u>1.823</u>
Attach structure dia., in.		<u>4.5</u>	<u>0.135</u>

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: ATTACH STRUCTURE - AT₃₀

GENERAL DESCRIPTION: Forward SRB to ET attach structure (LH and RH).

MODEL SCALE: 0.030

DRAWING NO.: VL78-000066, Martin Marietta 82600204300

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Attach point	X _T	985.675	29.570
	Y _T	-172.50 (LH) 172.50 (RH)	- 5.175 5.175
	Z _T	0.0	0.0
	X _S	442.675	13.280
	Y _S	80.00	2.400
	Z _S	0.0	0.0
	X _O	244.675	7.340
	Y _O	- 184.5 (LH) 184.5 (RH)	--5.535 5.535
	Z _O	0.0	0.0

ORIGINAL PAGE IS
OF POOR QUALITY

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: ATTACH STRUCTURE - AT₃₁

GENERAL DESCRIPTION: Rear ET to SRB attach structure (LH & RH), 3 members.

MODEL SCALE: 0.030

MODEL DRAWING: _____

DRAWING NO.: VL78-000063, -000062B, -000066

DIMENSIONS:	MEMBER	FULL SCALE	MODEL SCALE
	#1	X _T 2058.00	61.74
		Y _T - 171.50 (LH)	- 5.145
		171.50 (RH)	5.145
		Z _T 457.00	13.710
		X _S 1511.00	45.33
		Y _S 53.24	1.597
		Z _S 57.00	1.710
	#2	X _T 2058.00	61.74
		Y _T - 163.58	- 4.916
		Z _T 449.81	13.494
		X _S 1511.00	45.33
		Y _S 76.56	2.297
		Z _S 15.73	0.472
	#3	X _T 2058.00	61.74
		Y _T - 161.72	- 4.852
		Z _T 343.00	10.29
		X _S 1511.00	45.33
		Y _S 53.24	1.597
		Z _S - 57.00	- 1.710
Diameter of members, In.:	#1		
	#2		
	#3		

TABLE III.- MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: ATTACH STRUCTURE - AT32

GENERAL DESCRIPTION: Forward orbiter/ET attach structure (2 member structure)

MODEL SCALE: 0.030

DRAWING NO.: VL78-000062B, Martin Marietta 8260020914

DIMENSIONS:	MEMBER	FULL SCALE	MODEL SCALE
	#1		
	X _O	<u>388.15</u>	<u>11.6445</u>
	Y _O	<u>0.0</u>	<u>0.0</u>
(Attach pt on orb Z _T = 614)	Z _O	<u>LWR ML</u>	<u>IWR ML</u>
	X _T	<u>1129.9</u>	<u>34.05</u>
	Y _T	<u>46.50</u>	<u>1.395</u>
(Attach pt on tank)	Z _T	<u>562.58</u>	<u>16.877</u>
	#2		
	X _O	<u>388.15</u>	<u>11.645</u>
	Y _O	<u>0.0</u>	<u>0.0</u>
	Z _O	<u>LWR ML</u>	<u>LWR ML</u>
	X _T	<u>1129.9</u>	<u>34.05</u>
	Y _T	<u>- 46.50</u>	<u>- 1.395</u>
	Z _T	<u>562.58</u>	<u>16.877</u>
Diameter, In.	#1	<u>6.0</u>	<u>0.180</u>
	#2	<u>6.0</u>	<u>0.180</u>

TABLE III.- MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT : BODY - B₂₆

GENERAL DESCRIPTION : Configuration 140A/B orbiter fuselage

NOTE: B₂₆ is identical to B₂₄, except underside of fuselage has been
refaired to accept W₁₁₆.

MODEL SCALE: 0.030 MODEL DRAWING NO.: SS-A00147, Rel. 12.

DRAWING NUMBER : VL70-000143B, -000200, -000205, -006089, -000145,
-000140A, -000140B

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (OML: Fwd Sta. $X_0=235$), In.	1293.3	38.799
Length (IML: Fwd Sta. $X_0=238$), In.	1290.3	38.709
Max Width (@ $X_0 = 1528.3$), In.	264.0	7.920
Max Depth (@ $X_0 = 1464$), In.	250.00	7.500
Fineness Ratio	0.264	0.264
Area - Ft. ²		
Max. Cross-Sectional	340.88	0.307
Planform		
Wetted		
Base		

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TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT : CANOPY - C₉

GENERAL DESCRIPTION : Configuration 3A. Canopy used with fuselage B₂₆

MODEL SCALE: 0.030

MODEL DWG NO.: SS-A00147

DRAWING NUMBER: VL70-000143A

DIMENSIONS :

FULL SCALE

MODEL SCALE

Length ($X_O = 434.643$ to 578), In. 143.357 4.301

Max Width ($X_O = 513.127$), In. 152.412 4.572

Max Depth (At $X_O = 485.$), In. 25.000 0.750

Fineness Ratio

Area

Max. Cross-Sectional

Planform

Wetted

Base

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: ELEVON - E₁₁

GENERAL DESCRIPTION: 6.0 In. F.S. gaps machined into E₁₁ elevon. Flapper doors, centerbody pieces, and tipseals are not simulated. (Data are for one of two sides).

MODEL SCALE: 0.030

DRAWING NUMBER: Not available

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area -- Ft ²	<u>210.0</u>	<u>0.189</u>
Span (equivalent), In.	<u>349.2</u>	<u>10.476</u>
Inb'd equivalent chord, In.	<u>118.0</u>	<u>3.54</u>
Outb'd equivalent chord, In.	<u>55.19</u>	<u>1.656</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.2096</u>	<u>0.2096</u>
At Outb'd equiv. chord	<u>0.2096</u>	<u>0.2096</u>
Sweep Back Angles, degrees		
Leading Edge	<u>0.00</u>	<u>0.00</u>
Trailing Edge	<u>- 10.056</u>	<u>- 10.056</u>
Hingeline	<u>0.00</u>	<u>0.00</u>
(Product of area & c)		
Area Moment (Normal to hingeline), Ft ³	<u>1587.25</u>	<u>0.0429</u>
Mean Aerodynamic Chord, In.	<u>90.7</u>	<u>2.721</u>

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT : BODY FLAP - F₉

GENERAL DESCRIPTION : Configuration 140 A/B

MODEL SCALE: 0.030

DRAWING NUMBER : VI-70-000140B, -000200

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length (Chord), In.	<u>84.7</u>	<u>2.541</u>
Max Width , In.	<u>262.308</u>	<u>7.869</u>
Max Depth , In.	<u>23.00</u>	<u>0.690</u>
Fineness Ratio	<u></u>	<u></u>
Area - Ft. ²	<u></u>	<u></u>
Max. Cross-Sectional	<u></u>	<u></u>
Planform	<u>142.60</u>	<u>0.128</u>
Wetted	<u></u>	<u></u>
Base	<u>41.90</u>	<u>0.0377</u>

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: FEEDLINE - FI₁₀

GENERAL DESCRIPTION: LH₂ feedline on upper left-hand side of T₂₈.

MODEL SCALE: 0.030

DRAWING NO.: VL78-000063, -000062B

DIMENSIONS:

		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X _T	2071.5	62.145
	Y _T	- 70.0	- 2.100
	Z _T	573.934	17.218
Trailing edge at:	X _T	2081.80	62.454
	Y _T	- 70.00	- 2.10
	Z _T	584.059	17.522
Diameter of line (17.0 I.D.)		18.160	0.545

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: FEEDLINE - FL₁₁

GENERAL DESCRIPTION: LO₂ feedline on upper right-hand of T₂₈

MODEL SCALE: 0.030

DRAWING NO.: VL78-000063, VL78-000062B

DIMENSIONS:

		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X _T	<u>1000.667</u>	<u>30.02</u>
	Y _T	<u>70.00</u>	<u>2.10</u>
	Z _T	<u>150.519</u>	<u>4.516</u>
Trailing edge at:	X _T	<u>2071.5</u>	<u>62.145</u>
	Y _T	<u>70.00</u>	<u>2.100</u>
	Z _T	<u>573.934</u>	<u>17.218</u>
Line diameter (17.0 I.D.)	(O.D.)	<u>18.16</u>	<u>0.545</u>

TABLE III. -MODEL DIMENSIONAL DATA-- Continued.

MODEL COMPONENT: FAIRING - FR₁₀

GENERAL DESCRIPTION: Umbilical door fairing between aft ET/orbiter attach structure.

MODEL SCALE: 0.030

DRAWING NO.: VL78-000063, -000062B, Martin Marietta 82600207000

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at	2052.0	61.74
Length	193.0	5.70
Width	15.0	0.45

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: OMS POD - M₁₆GENERAL DESCRIPTION: Configuration 140C orbiter OMS pod - short pod.MODEL SCALE: 0.030.DRAWING NUMBER VL70-008401, -008410

<u>DIMENSION:</u>	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length (OMS Fwd Sta. $X_0=1310.5$), In.	<u>258.50</u>	<u>7.755</u>
Max Width (@ $X_0 = 1511$), In.	<u>136.8</u>	<u>4.104</u>
Max Depth (@ $X_0 = 1511$), In.	<u>74.70</u>	<u>2.241</u>
Fineness Ratio	<u>2.484</u>	<u>2.484</u>
Area - Ft ²		
Max Cross-Sectional	<u>58.864</u>	<u>0.053</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III. - MODEL DIMENSIONAL DATA- Continued.

MODEL COMPONENT: OMS NOZZLES - N28GENERAL DESCRIPTION: Configuration 140A 'B orbiter OMS NozzlesMODEL SCALE: 0.030DRAWING NUMBER: VL70-000140A (Location), 33-A00106, Rel. 5 (Contour)

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
MACH NO.		
Length - In.		
Gimbal Point to Exit Plane		
Throat to Exit Plane		
Diameter - In.		
Exit		
Throat		
Inlet		
Area - ft ²		
Exit		
Throat		
Gimbal Point (Station) - In.		
Left Upper Nozzle		
X _o	<u>1518.00</u>	<u>45.54</u>
Y _o	<u>- 88.0</u>	<u>--2.64</u>
Z _o	<u>492.00</u>	<u>14.76</u>
Right Lower Nozzle		
X _o	<u>1518.00</u>	<u>45.54</u>
Y _o	<u>88.0</u>	<u>2.64</u>
Z _o	<u>492.00</u>	<u>14.76</u>
Null Position - Deg.		
Left Upper Nozzle		
Pitch	<u>15°49'</u>	<u>15°49'</u>
Yaw	<u>12°17'</u>	<u>12°17'</u>
Right Lower Nozzle		
Pitch	<u>15°49'</u>	<u>15°49'</u>
Yaw	<u>12°17'</u>	<u>12°17'</u>

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: BSRM NOZZLE - N86

GENERAL DESCRIPTION: Booster solid rocket motor nozzles.

MODEL SCALE: 0.030

DRAWING NO.: VL70-000066

DIMENSIONS:

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Diameter, D_{ex} - In. (I.D.)	144.29	4.3287
Diameter, D_{ex} - In. (O.D.)	146.79	4.4037
Diameter, D_T - IN.		
Diameter, D_{in} - In.		
Area - Ft ²		
Max. Cross-sectional (I.D.)	113.553	0.102
Gimbal Origin:		
Left Nozzle		
X_o	1902.6	57.078
Y_o	-250.50	- 7.515
Z_o	400.0	12.00
Right Nozzle		
X_o	1902.6	57.078
Y_o	250.50	7.515
Z_o	400.0	12.00
Null Position: (Deg.)		
Left nozzle gimbal	± 8	± 8
Right nozzle gimbal	± 8	± 8

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: ET PROTUBERANCE - PT₁₂

GENERAL DESCRIPTION: Lightning rod attached to ET nose.

MODEL SCALE: 0.030

DIMENSIONS:

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length	30.90	0.927
Diameter - In.	3.20	0.096

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: ELECTRICAL LINE - PT₂₂

GENERAL DESCRIPTION: Left-hand electrical conduit line on T₂₈.

MODEL SCALE: 0.030.

DRAWING NUMBER VL78-000063, -000062R

<u>DIMENSION:</u>		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X _T	<u>1084.333</u>	<u>32.530</u>
	Y _T	<u>- 99.591</u>	<u>- 2.988</u>
	Z _T	<u>-139.620</u>	<u>- 4.189</u>
Trailing edge at:	X _T	<u>2058.000</u>	<u>61.740</u>
	Y _T	<u>- 99.591</u>	<u>- 2.988</u>
	Z _T	<u>- 139.620</u>	<u>- 4.189</u>
Conduit size:		<u>2.0 x 6.0</u>	<u>0.06 x 0.18</u>
Centerline of line located radially at $\theta = 35.5$ deg.			

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: LO₂ RECIRCULATION LINE - PT₂₃

GENERAL DESCRIPTION: LO₂ recirculation line on right-hand upper side
side of T_{2g}.

MODEL SCALE: 0.030

DRAWING NO.: VL78-000063, -000062B, Martin Marietta 82600207000

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X _T	1040.667	31.220
	Y _T	94.169	2.825
	Z _T	540.934	16.228
Trailing edge at:	X _T	2062.920	61.888
	Y _T	70.000	2.100
	Z _T	573.934	17.218
Diameter of line		4.0	0.120
Centerline of line located radially at $\theta = 33^{\circ}45'$ (Right of TDC looking forward)			

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: LH₂ RECIRCULATION LINE - PT₂₄

GENERAL DESCRIPTION: LH₂ recirculation line on T₂₈.

MODEL SCALE: 0.030

DRAWING NO.: VL78-000063, -000062B, Martin Marietta 82600207000

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X _T	1040.667	31.220
	Y _T	- 94.169	- 2.825
	Z _T	540.934	16.228
Trailing edge at:	X _T	2062.920	61.888
	Y _T	- 70.00	-2.100
	Z _T	573.934	17.218
Diameter of line		4.00	0.120
Centerline of line located radially at $\theta = 33^{\circ}45'$ (Left of TDC looking forward)			

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: ELECTRICAL LINE - PT₂₅

GENERAL DESCRIPTION: Right-hand aft electrical conduit line on T₂₈ with
LH₂ pressure sensor line and LOX vent valve actuator line.

MODEL SCALE: 0.030

DRAWING NO.: VL78-000063, -000062B, Martin Marietta 82600207000

DIMENSIONS:

		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X _T	<u>1084.333</u>	<u>32.530</u>
	Y _T	<u>99.591</u>	<u>2.988</u>
	Z _T	<u>139.620</u>	<u>4.189</u>
Trailing edge at:	X _T	<u>2058.000</u>	<u>61.74</u>
	Y _T	<u>99.591</u>	<u>2.988</u>
	Z _T	<u>139.620</u>	<u>4.189</u>
Line diameter		<u>2.0 x 6.0</u>	<u>0.06 x 0.18</u>
Centerline of line located radially at $\theta = 35.5^\circ$			

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: LO₂ PRESSURE LINE - PT₂₆

GENERAL DESCRIPTION: LO₂ pressure line on T₂₈.

MODEL SCALE: 0.030

DRAWING NO.: VL78-000063, -000062B, Martin Marietta 82600207000

DIMENSIONS:

		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X _T	360.733	10.822
	Y _T	15.145	0.454
	Z _T	407.718	12.232
Trailing edge at:	X _T	2083.5	62.505
	Y _T	63.25	1.898
	Z _T	609.00	18.27
Centerline of line located radially at $\theta = 27^\circ$			
Line diameter		2.0	0.060

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: ELECTRICAL LINE - PT27

GENERAL DESCRIPTION: Electrical conduit on the right-hand forward section of T₂₈.

MODEL SCALE: 0.030

DRAWING NO.: VL78-000062B

DIMENSIONS:		<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Leading edge at:	X _T	360.733	10.822
	Y _T	11.549	0.346
	Z _T	412.474	12.374
Trailing edge at:	X _T	876.273	26.288
	Y _T	226.114	6.783
	Z _T	646.774	19.403

Centerline of conduit located radially at $\theta = 47.5^\circ$

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: RUDDER - R₅

GENERAL DESCRIPTION: Configuration 140C orbiter rudder (Identical to configuration 140A/B rudder).

MODEL SCALE: 0.030

DRAWING NUMBER: VL70-000146B. --000095

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area - Ft ²	<u>100.15</u>	<u>0.090</u>
Span (equivalent), In.	<u>201.0</u>	<u>6.03</u>
Inb'd equivalent chord, In.	<u>91.585</u>	<u>2.748</u>
Outb'd equivalent chord, In.	<u>50.833</u>	<u>1.525</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
At Outb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
Sweep Back Angles, degrees		
Leading Edge	<u>34.83</u>	<u>34.83</u>
Trailing Edge	<u>26.25</u>	<u>26.25</u>
Hingeline	<u>34.83</u>	<u>34.83</u>
(Product of area & c)		
Area Moment (Normal to hingeline), Ft. ³	<u>610.92</u>	<u>0.016</u>
Mean Aerodynamic Chord, In.	<u>73.2</u>	<u>2.196</u>

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: BOOSTER SOLID ROCKET MOTOR - S₂₁

GENERAL DESCRIPTION: _____

MODEL SCALE: 0.030

DRAWING NUMBER VI.72-000143D, VI.77-000066

<u>DIMENSION:</u>	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length (Includes nozzle), In.	1789.40	53.682
Max Width Tank Diameter, In.	146.00	4.38
Max Depth Aft shroud Dia., In.	192.00	5.76
Fineness Ratio	9.3198	9.3198
Area - ft^2		
Max Cross-Sectional	201.062	0.1809
Planform		
Wetted		
Base		
WP of BSRM centerline (Z_T)	400.0	1.200
FB of BSRM nose (X_T)	743.0	22.29
BP of BSRM centerline (Y_T)	250.5	7.515

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TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: EXTERNAL TANK - T₂₀

GENERAL DESCRIPTION: _____

NOTE: (Dimensions are to tank structural OML, TPS not included.)

MODEL SCALE: 0.030

DRAWING NUMBER VL72-000143D, VL78-000063

<u>DIMENSION:</u>	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length, In.	<u>1844.275</u>	<u>55.328</u>
Max Width Dia., In.	<u>331.00</u>	<u>9.93</u>
Max Depth	<u> </u>	<u> </u>
Fineness Ratio	<u>5.687</u>	<u>5.687</u>
Area - Ft ²	<u> </u>	<u> </u>
Max Cross-Sectional	<u>594.678</u>	<u>0.053</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: VERTICAL - V₈

GENERAL DESCRIPTION: Configuration 140C orbiter vertical tail (identical
to configuration 140A/B vertical tail)

MODEL SCALE: 0.030

DRAWING NUMBER: VL70-000140C, -000146B

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
TOTAL DATA		
Area (Theo) - Ft ²		
Planform	<u>413.253</u>	<u>0.372</u>
Span (Theo) - In.	<u>315.72</u>	<u>9.472</u>
Aspect Ratio	<u>1.675</u>	<u>1.675</u>
Rate of Taper	<u>0.507</u>	<u>0.507</u>
Taper Ratio	<u>0.404</u>	<u>0.404</u>
Sweep-Back Angles, Degrees.		
Leading Edge	<u>45.000</u>	<u>45.000</u>
Trailing Edge	<u>26.25</u>	<u>26.25</u>
0.25 Element Line	<u>41.13</u>	<u>41.13</u>
Chords:		
Root (Theo) WP	<u>268.50</u>	<u>8.055</u>
Tip (Theo) WP	<u>108.47</u>	<u>3.254</u>
MAC	<u>199.81</u>	<u>5.992</u>
Fus. Sta. of .25 MAC	<u>1463.35</u>	<u>43.901</u>
W.P. of .25 MAC	<u>635.52</u>	<u>19.066</u>
B.L. of .25 MAC	<u>0.00</u>	<u>0.00</u>
Airfoil Section		
Leading Wedge Angle - Deg.	<u>10.00</u>	<u>10.00</u>
Trailing Wedge Angle - Deg.	<u>14.92</u>	<u>14.92</u>
Leading Edge Radius	<u>2.00</u>	<u>0.060</u>
Void Area	<u>13.17</u>	<u>0.0019</u>
Blanketed Area	<u>0.0</u>	<u>0.0</u>

TABLE III. - MODEL DIMENSIONAL DATA - Concluded.

MODEL COMPONENT: WING-W 116GENERAL DESCRIPTION: Configuration A

NOTE: Identical to W₁₁₆, except airfoil thickness. Dihedral angle is along
trailing edge of wing.

MODEL SCALE: 0.030

TEST NO. _____

DWG. NO. VI 70-000140A, -000200DIMENSIONS:FULL-SCALEMODEL SCALETOTAL DATAArea (Theo.) Ft^2

Planform

2690.00

2.421

Span (Theo) In.

936.68

28.10

Aspect Ratio

2.245

2.245

Rate of Taper

1.177

1.177

Taper Ratio

0.200

0.200

Dihedral Angle, degrees

3.500

3.500

Incidence Angle, degrees

0.500

0.500

Aerodynamic Twist, degrees

3.000

3.000

Sweep Back Angles, degrees

Leading Edge

45.000

45.000

Trailing Edge

- 10.056

- 10.056

0.25 Element Line

35.209

35.209

Chords:

Root (Theo) B.P.O.O.

689.24

20.677

Tip, (Theo) B.P.

137.85

4.136

MAC

474.81

14.244

Fus. Sta. of .25 MAC

1136.83

34.105

W.P. of .25 MAC

290.58

8.717

B.L. of .25 MAC

182.13

5.464

EXPOSED DATAArea (Theo) Ft^2

1751.50

1.576

Span, (Theo) In. BP108

720.68

21.620

Aspect Ratio

2.059

2.059

Taper Ratio

0.245

0.245

Chords

Root BP108

562.09

16.863

Tip $1.00 \frac{b}{2}$

137.85

4.136

MAC

392.83

11.785

Fus. Sta. of .25 MAC

1185.98

35.579

W.P. of .25 MAC

294.30

8.825

B.L. of .25 MAC

251.77

7.553

Airfoil Section (Rockwell Mod NASA)
XXXX-64Root $\frac{b}{2}$ =

0.113

0.113

Tip $\frac{b}{2}$ =

0.120

0.120

Data for (1) of (2) Sides

Leading Edge Cuff $\frac{b}{2}$ Planform Area Ft^2

113.18

0.102

Leading Edge Intersects Fus M. L. @ Sta

500.0

15.00

Leading Edge Intersects Wing @ Sta

1024.00

30.72

ORIGINAL PAGE IS
OF POOR QUALITY

TABLE IV.
ORBITER WING PRESSURE TAP NUMBERS

η	Y	ORBITER LEFT WING PRESSURE TAP NUMBERS																No. Taps	Σ Taps
		X/C	0	.041	.113	.247	.429	.547	.638	.727	.793								
235	110	TOP	208	209	210	211	212	213	214	215	216							9	9
		Bot.	—	—	—	—	—	—	—	—	—							0	
291	140	X/C	0	.010	.020	.050	.0944	.229	.362	.497	.700	.834	.865	.900	.965			13	34
		TOP	217	218	219	220	221	222	223	224	225	226	227	228	229			12	
		Bot.	230	231	232	233	234	235	236	237	238	239	240	241					
349	170	X/C	0	.010	.020	.040	.086	.163	.246	.370	.637	.798	.839	.879	.919	.955		14	61
		TOP	242	243	244	245	246	247	248	249	250	251	252	253	254	255		13	
		Bot.	256	257	258	259	260	261	262	263	264	265	266	267	268				
427	200	X/C	0	.010	.020	.040	.0813	.177	.270	.402	.525	.760	.808	.857	.905	.953	1.000	14	89
		TOP	269	270	271	272	273	274	275	276	277	278	279	280	281	282		14	
		Bot.	283	284	285	286	287	288	289	290	291	292	293	294	295	296		14	
534	250	X/C	0	.010	.020	.050	.080	.150	.250	.400	.550	.725	.775	.850	.900	.950		14	116
		TOP	297	298	299	300	301	302	303	304	305	306	307	308	309	310		13	
		Bot.	311	312	313	314	315	316	317	318	319	320	321	322	323				
673	300	X/C	0	.010	.020	.050	.150	.250	.400	.550	.700	.775	.850	.950	1.000			12	140
		TOP	324	325	326	327	328	329	330	331	332	333	334	335				12	
		Bot.	336	337	338	339	340	341	342	343	344	345	346	347				12	
740	365	X/C	0	.010	.020	.050	.150	.250	.400	.550	.700	.750	.850					10	159
		TOP	348	349	350	351	352	353	354	355	356	357						9	
		Bot.	358	359	360	361	362	363	364	365	366								
887	415	X/C	0	.010	.020	.050	.150	.250	.400	.600	.750	.900	1.000					10	179
		TOP	367	368	369	370	371	372	373	374	375	376						10	
		Bot.	377	378	379	380	381	382	383	384	385	386						10	
972	455	X/C	0	.010	.069	.157	.345	.503	.670	.862								8	194
		TOP	387	388	389	390	391	392	393	394								7	
		Bot.	395	396	397	398	399	400	401										
1,000	468.33	X	1362	1405														2	196
WING TAP		TOP	402	403															
		Bot.																	
η	Y	ORBITER RIGHT WING PRESSURE TAP NUMBERS																No. Taps	Σ Taps
		X/C	0	.041	.113	.247	.429	.547	.638	.727	.793								
235	110	TOP	404	405	406	407	408	409	410	411	412							3	205
		Bot.																11	
364	170	X/C	0	.010	.020	.040	.086	.163	.246	.370	.798							9	222
		TOP	413	414	415	416	—	417	418	419	420	421						9	
		Bot.	422	423	424	425	426	427	428	429								5	

TABLE V. ORBITER FUSELAGE PRESSURE TAP NUMBERS

WEN F-3 L-100-10

ORBITER X_0 ~ IN.			Φ RADIAL LOCATION ~ DEGREES																									
FULL	MODEL	X_0/L	0	20	40	55	70	90	105	110	120	135	140	150	151	156	162	165	169	174	180	305	320	340	N_{TAPS}	Σ_{TAPS}		
235	7.05	0	7																						1	1		
245	7.35	.008	8					9													10				3	2		
265	7.95	.023	11	12	13	14	15	16			17			18							19	20	21	22	12	16		
295	8.85	.046	23	24	25	26	27	28			29			30							31	32	33	34	12	28		
325	9.75	.070	35	36	37	38	39	40			41			42							43	44	45	46	12	40		
380	11.40	.112	47	48	49	50	51	52			53			54							55	56	57	58	12	52		
440	13.20	.158																		59					1	53		
450	13.50	.166	60	61	62	63	64	65			66					67			68		69	70	71	72	13	66		
465	13.95	.177													73		74								2	68		
500	15.00	.204	75	76	77	78	79	80			81		82	83				84			85	86	87	88	14	82		
560	16.80	.251	89		90		91	92			93			94				95			96		97		9	91		
625	18.75	.301	98		99		100	101			102			103				104			105		106		9	100		
725	21.75	.378	107		108		109	110			111			112				113			114		115		9	109		
880	26.40	.497	116		117		118	119			120			121				122			123		124		9	118		
980	29.40	.574	125		126																		127		3	121		
1080	32.40	.652	128		129		130	131			132			133				134			135		136		9	130		
1180	35.40	.729	137		138		139	140			141			142							143		144		8	138		
1245	37.35	.779	145		146		147	148	149		150	151		152				153			154		155		11	149		
1300	39.00	.821	156		157		158	159	160		161	162		163							164		165		10	159		
1375	41.25	.879	166		167		168	169	170		171	172		173				174					175		10	169		
1430	42.90	.921	176		177		178	179	180		181	182		183				184					185		10	179		
1480	44.40	.960	186		187		188	189	190		191	192		193				194					195		10	189		
1530	45.90	.999									196	197													2	191		
1530	45.90	.999									198	199													2	193		

L = 1297.0 IN.

- a. OMS POD, INSIDE
b. OMS POD, OUTSIDE

TABLE VI. ORBITER VERTICAL TAIL PRESSURE TAP
NUMBERS (LEFT SIDE ONLY)

VERTICAL			X/CV											
Zo	FULL SCALE	Zo MODEL SCALE	η_v	0	.025	.05	.15	.30	.52	.685	.775	.90	No. TAPS	TAPS
550		16.5	.153	430	431	432	433	434	435	436	437		8	8
600		18.0	.316	438	439	440	441	442	443	444	445	446	9	17
690		20.7	.600	447	448	449	450	451	452	453	454	455	9	26
765		22.95	.840	456	457	458	459	460	461	462	463	464	9	35
792		23.76	.925	465	466	467	468	469	470	471	472	473	9	44

TABLE VII. EXTERNAL TANK PRESSURE TAP NUMBERS

VIEW FWD LOOKING AFT



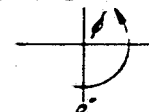
X_T IN. REL SCALE	X_{T+IN} MODEL SCALE	X_T/L_T	ϕ DEGREES																NO TAPS
			0	30	60	90	120	135	147	160	180	198	213	225	240	270	300	330	
298/329	8.937/9.267	0	474																1
346	10.38	0.0092	475	476	477	478	479		480		481		482		483	484	485	486	12
363	10.89	0.0164	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	16
403	12.09	0.0200	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	16
448	13.44	0.0644	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	16
568	17.04	0.1294	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	16
688	20.64	0.1944	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	16
718	21.54	0.2106	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	16
758	22.74	0.2323	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	16
808	24.24	0.2594	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	16
850	25.50	0.2821	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	16
950	28.50	0.3362	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	16
1050	31.50	0.3904	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	—	16
1150	34.50	0.4445	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	16
1250	37.50	0.4987	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	16
1350	40.50	0.5528	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	16
1500	45.00	0.6340	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	16
1700	51.00	0.7423	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	16
1900	57.00	0.8506	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	16
2040	61.20	0.9264	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	16
2146	64.38	0.9838	775	776	777	778	779		780		781		782		783	784	785	786	12
STING CAVITY			787																1
$L_T = 1846.91$ IN.																			314

$L_T = 1846.91$ IN.

314 TAPS

TABLE VIII LEFT SRB PRESSURE TAP NUMBERS

VIEW FWD LOOKING AFT



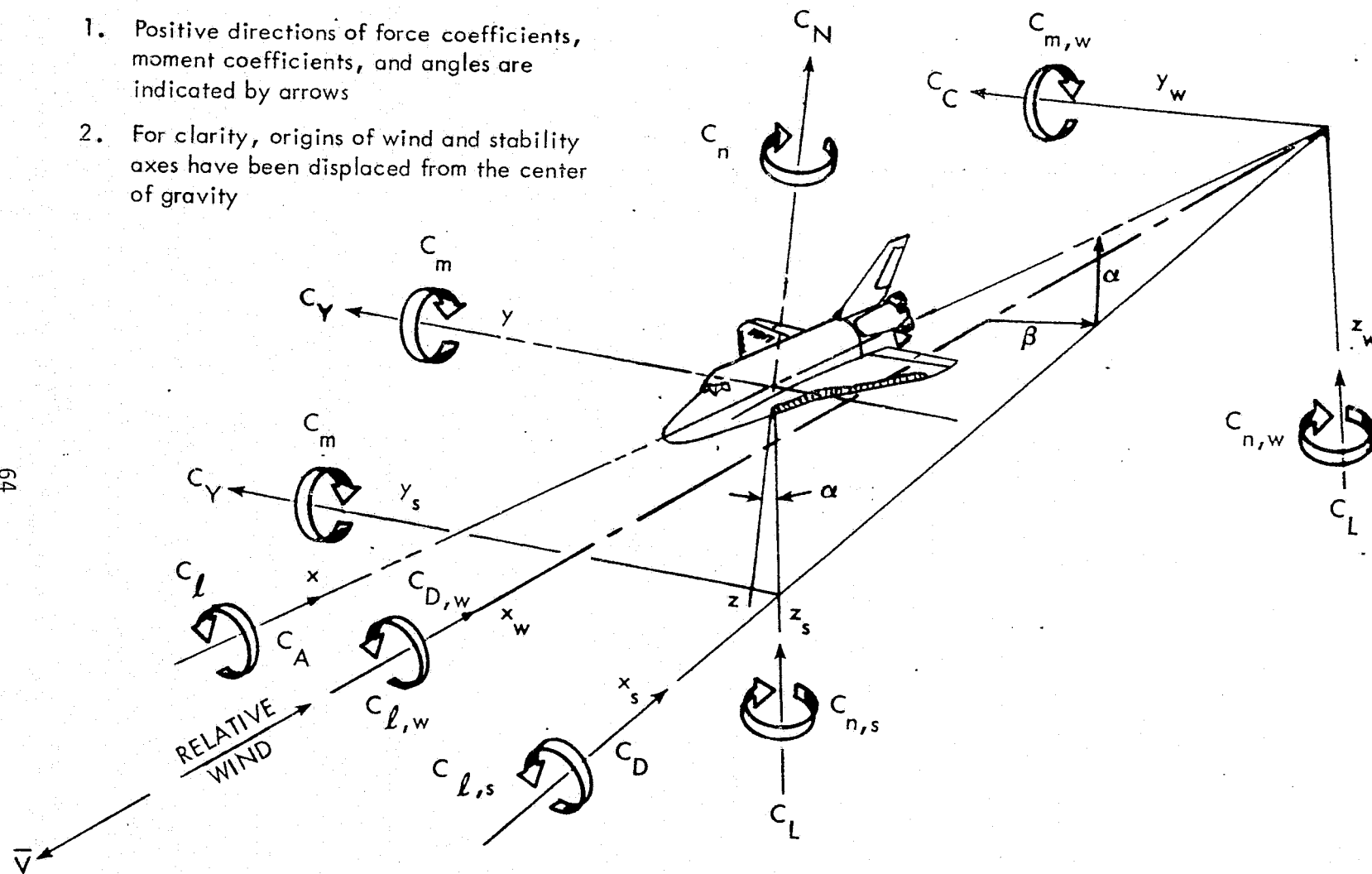
X_s IN. FULL SCALE	X_s IN. MODEL SCALE	X_s/L_s	ϕ IN DEGREES										NO. TAPS	Σ NO TAPS
			0	45	90	135	180	225	270	315				
200	6	0	788										1	1
260	7.8	0.0335	789	790	791	792	793	794	795	796			8	9
370	11.1	0.0950	797	798	799	800	801	802	803	804			8	17
400	12.0	0.1118	805	806	807	808	809	810	811	812			8	25
450	13.5	0.1397	813	814	815	816	817	818	819	820			8	33
550	16.5	0.1956	821	822	823	824	825	826	827	828			8	41
700	21.0	0.2774	829	830	831	832	833	834	835	836			8	49
850	25.5	0.3632	837	838	839	840	841	842	843	844			8	57
1050	31.5	0.4250	845	846	847	848	849	850	851	852			8	65
1250	37.5	0.5867	853	854	855	856	857	858	859	860			8	73
1450	43.5	0.6985	861	862	863	864	865	866	867	868			8	81
* 1503	45.09	0.7280	869		870		871		872				4	85
* 1505	45.15	0.7290	873		874		875		876				4	89
* 1517	45.51	0.7360	877		878		879		880				4	93
* 1519	45.57	0.737	881		882		883		884				4	97
1650	49.5	0.8102	885	886	887	888	889	890	891	892			8	105
1750	52.5	0.8661	893	894	895	896	897	898	899	900			8	113
1840	55.2	0.9170	901	902	903	904	905	906	907	908			8	121
* 1850	55.5	0.9220	909		910		911		912				4	125
* 1852	55.56	0.9230	913		914		915		916				4	129
1890	56.7	0.9443	917	918	919	920	921	922	923	924			8	137
1930	57.9	0.9667	925	926	927	928	929	930	931	932			8	145
SKIRT BASE			933		934				935				3	148
NOZZLE BASE			936										1	149

$L_s = 1789.60$ IN.

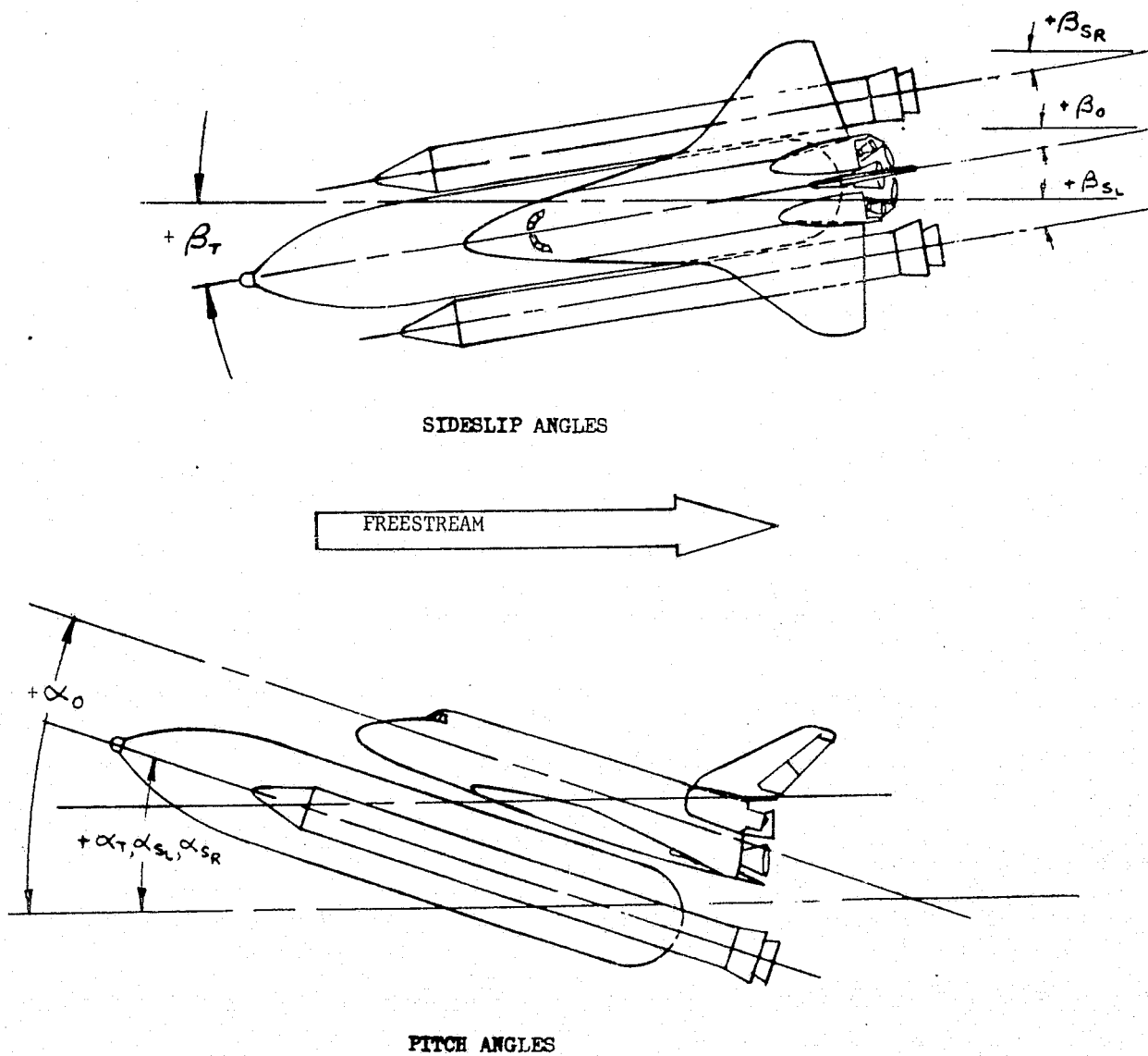
* PRESSURE TAPS AT 77.5 IN. RADIUS ON THE STRUCTURAL RINGS

Notes:

1. Positive directions of force coefficients, moment coefficients, and angles are indicated by arrows
2. For clarity, origins of wind and stability axes have been displaced from the center of gravity



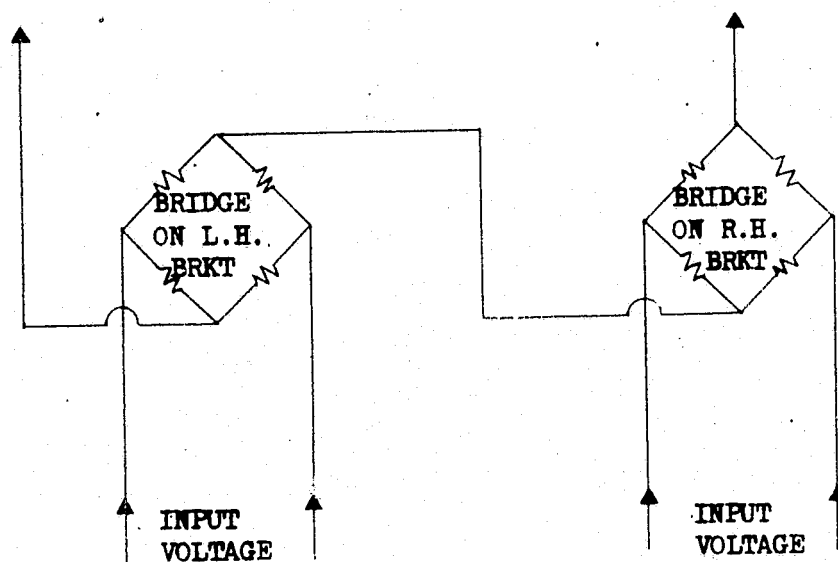
a. Forces and Moments
Figure 1. - Axis Systems.



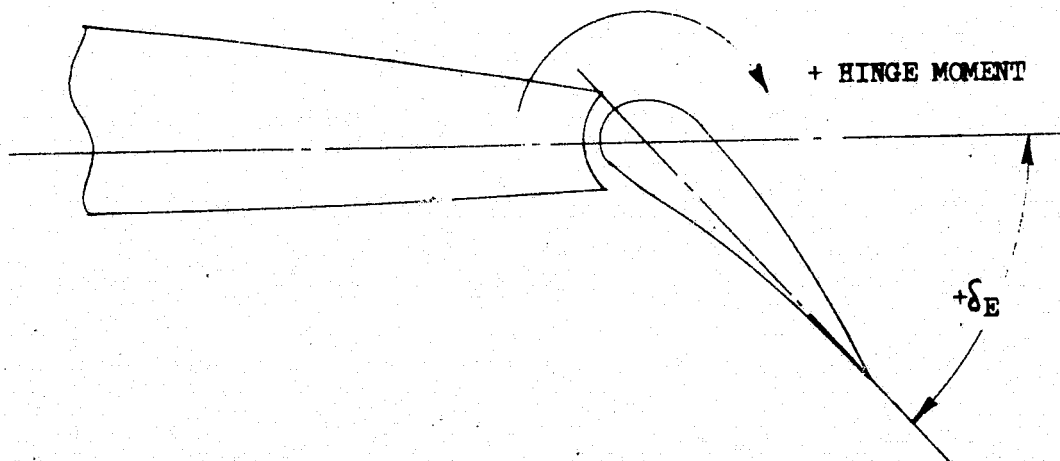
b. Model Attitude Definition

Figure 1. - Continued.

OUTPUT VOLTAGE



ELEVON HINGE MOMENT WIRING DIAGRAM
TYPICAL FOR INBOARD AND OUTBOARD ELEVONS



c. Elevon Electrical Hookup and Sign Conventions

Figure 1. - Concluded.

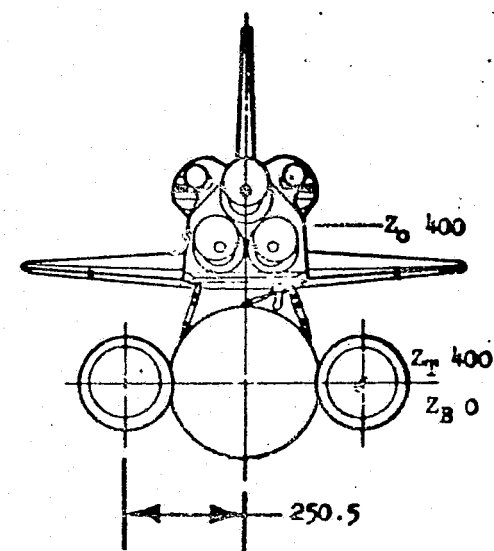
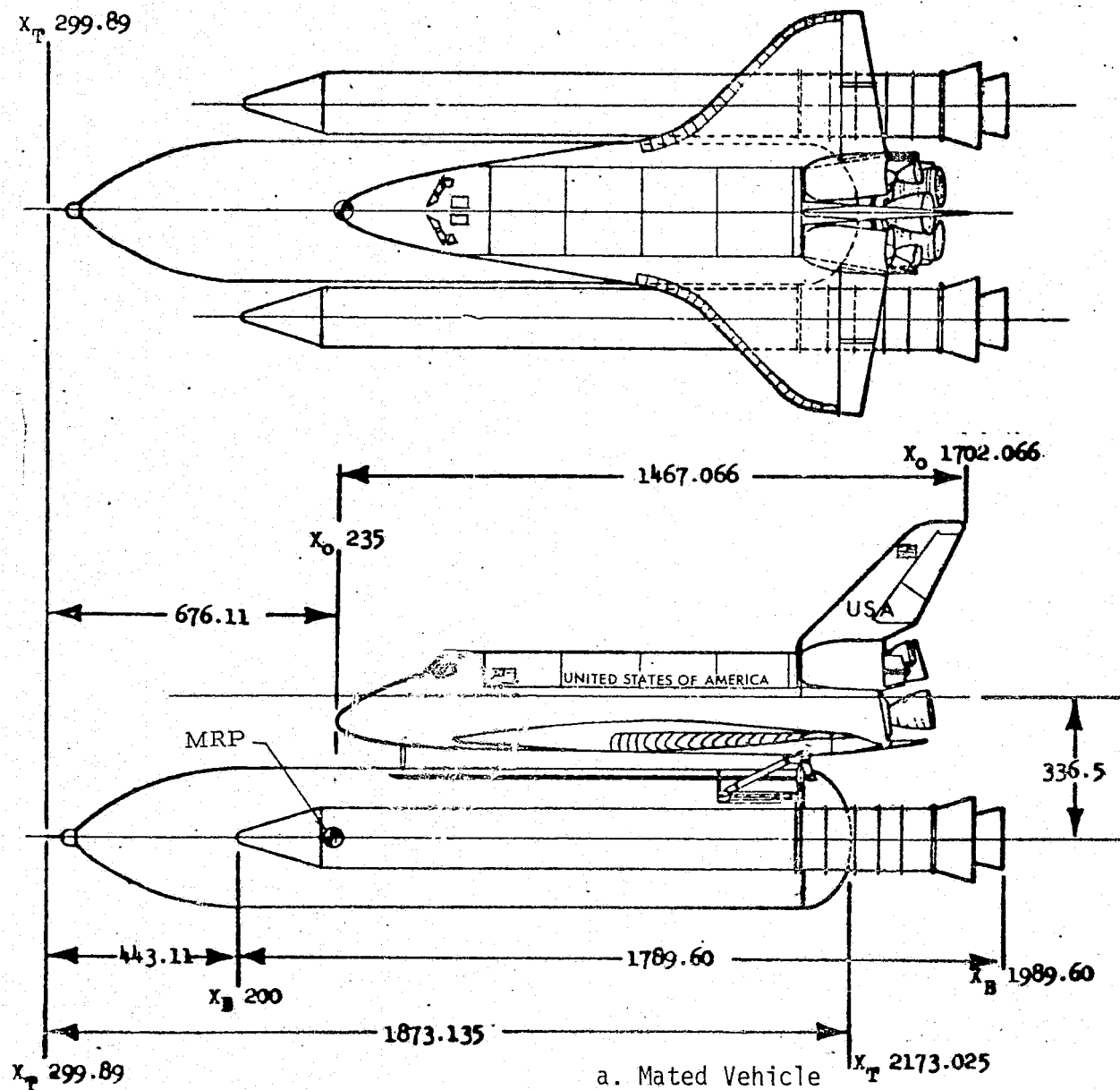
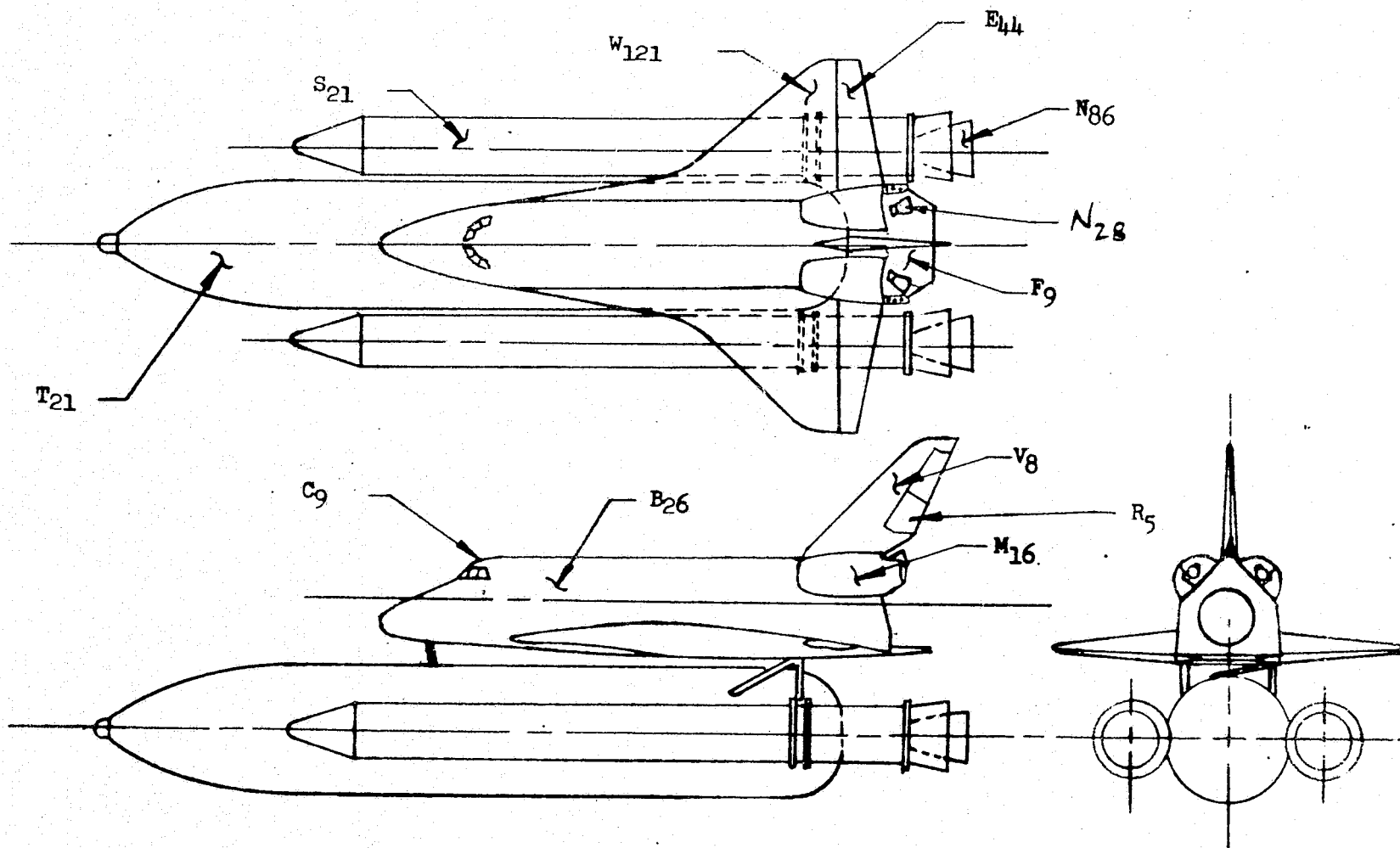
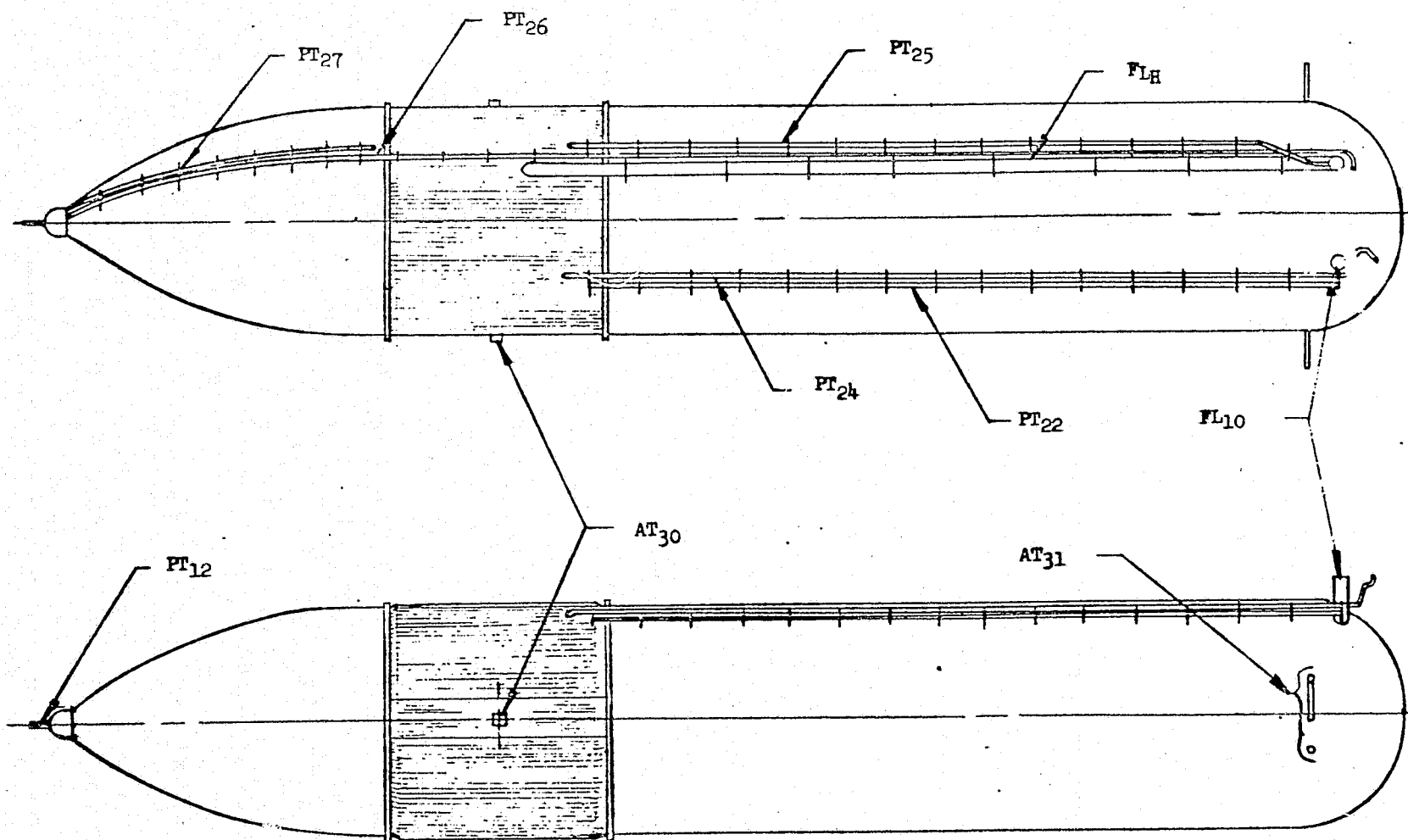


Figure 2. - Model sketches.



b. LVA Integrated Vehicle Three View

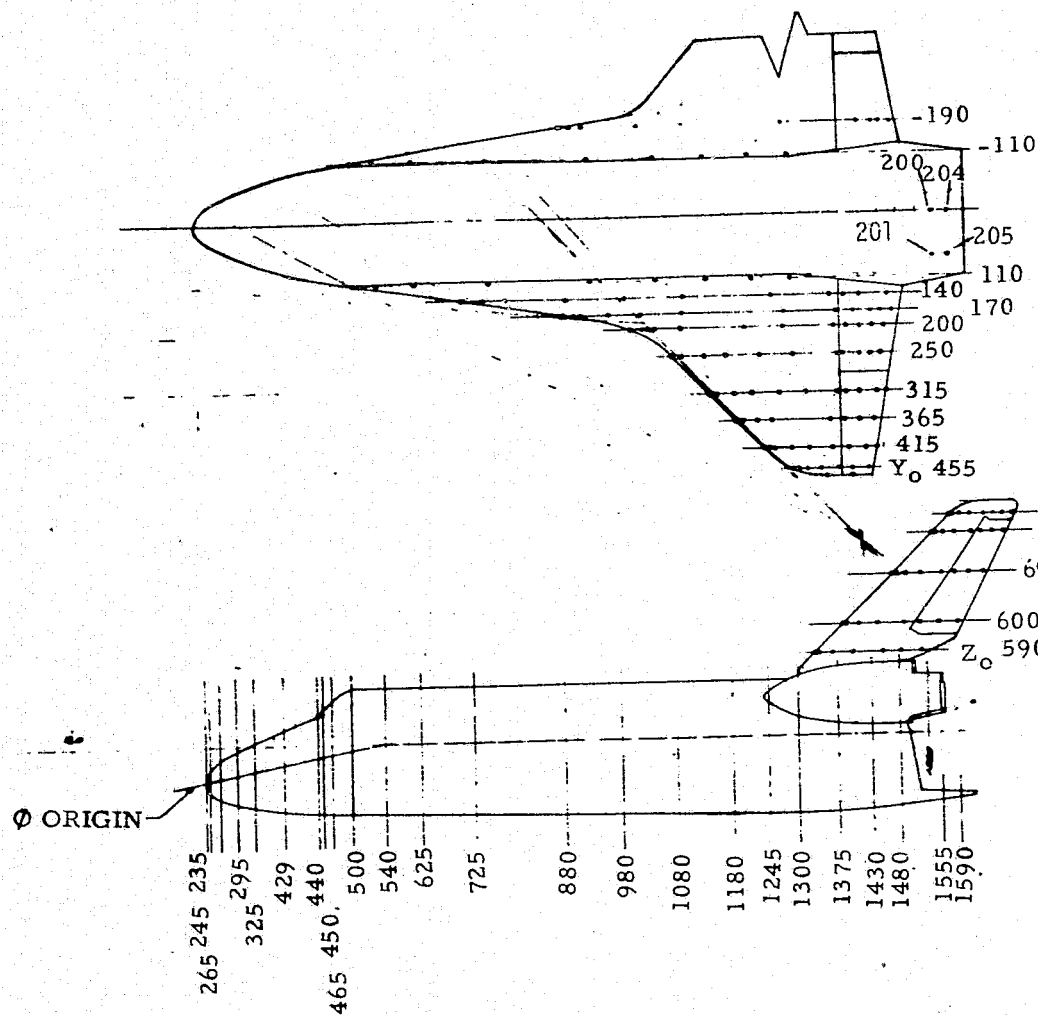
Figure 2. - Continued.



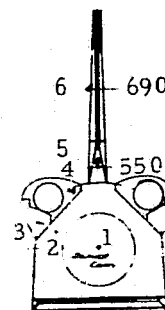
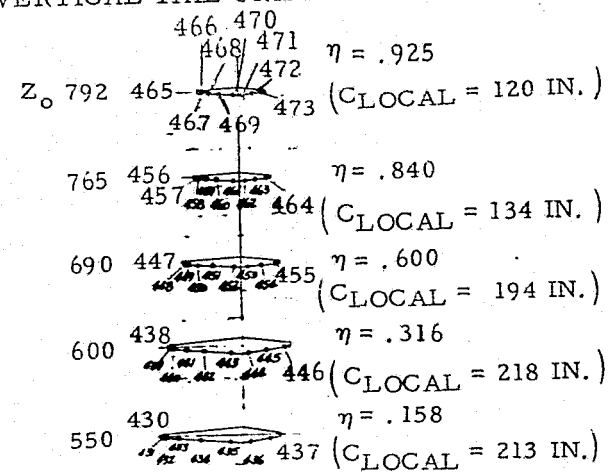
c. (T₂₈) External Tank Protuberances

Figure 2. - Continued.

70



VERTICAL TAIL ORIFICE LOCATION

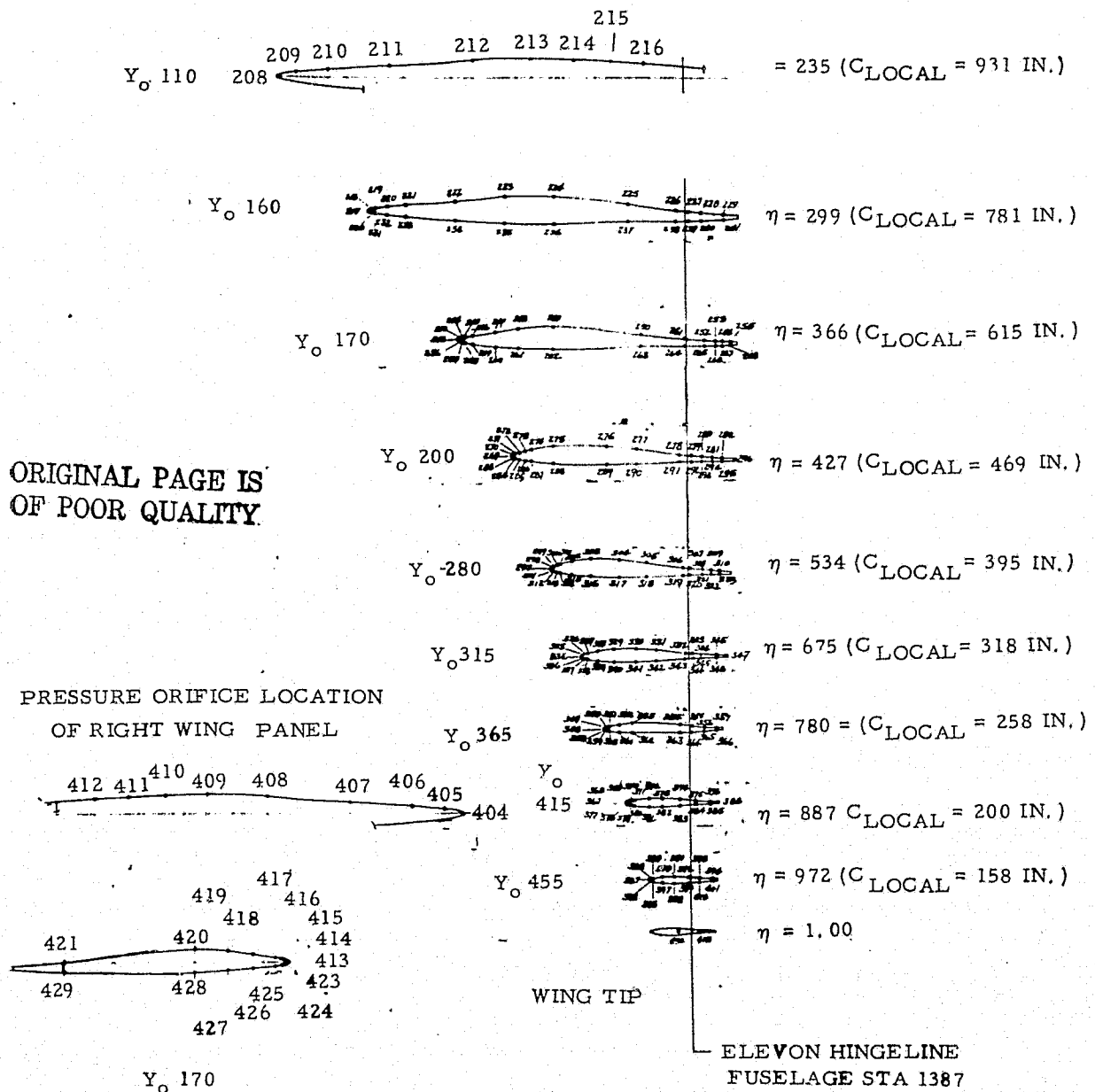


ORBITER-BASE
VIEW LOOKING FORWARD

d. Orbiter Upper Wing and Vertical Tail Pressure Tap Locations

Figure 2. - Continued.

PRESSURE ORIFICE LOCATION OF LEFT WING PANEL

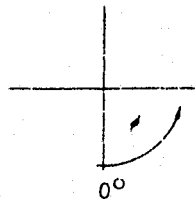


e. Orbiter Wing Pressure Tap Locations

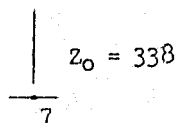
Figure 2. - Continued.

FUSELAGE ORIFICE LOCATION

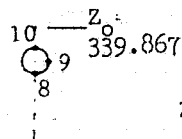
NOTE:
VIEW LOOKING AFT



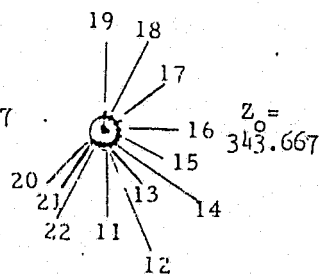
FUS STA 235



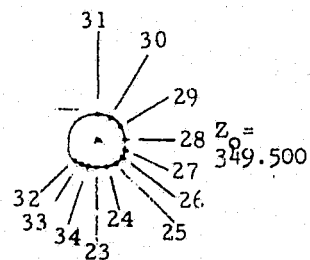
FUS STA 245



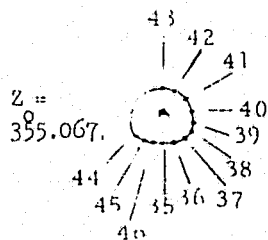
FUS STA 265



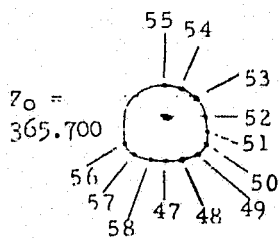
FUS STA 295



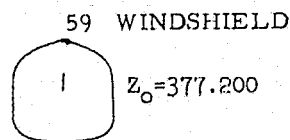
FUS STA 325



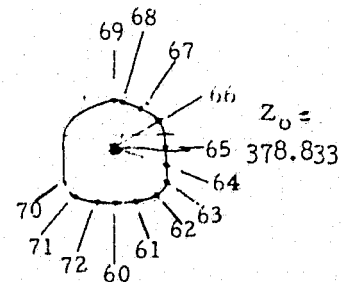
FUS STA 380



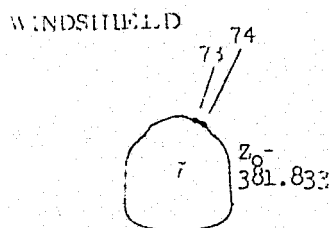
FUS STA 440



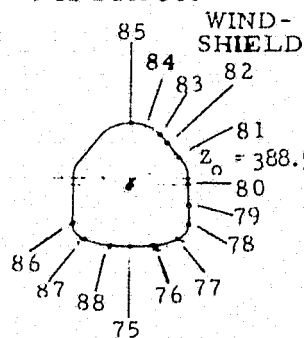
FUS STA 450



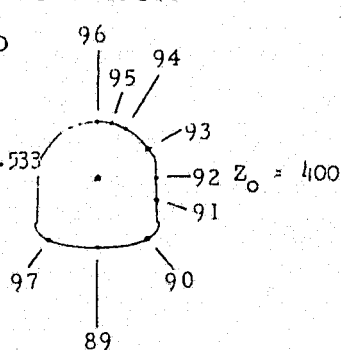
FUS STA 465



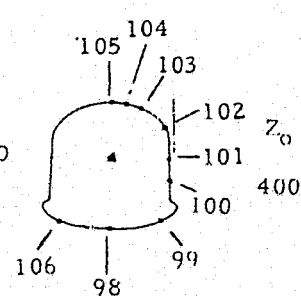
FUS STA 500



FUS STA 560



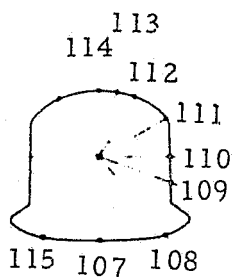
FUS STA 625



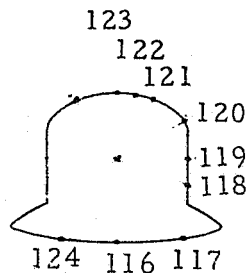
f. Orbiter Forward Fuselage Pressure Tap Locations

Figure 2. - Continued.

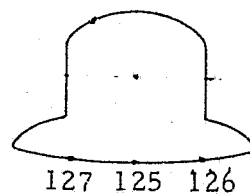
FUS STA



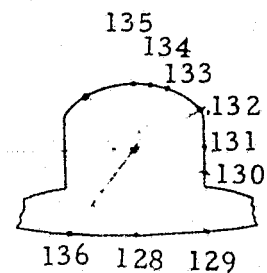
FUS STA



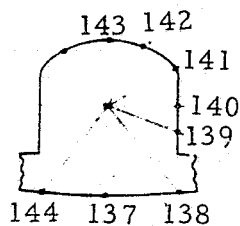
FUS STA 980



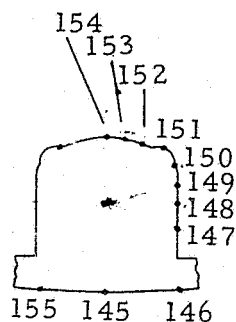
FUS STA 1080



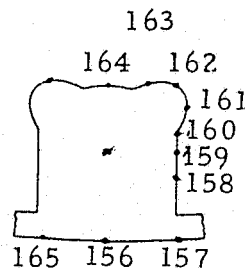
FUS STA 1180



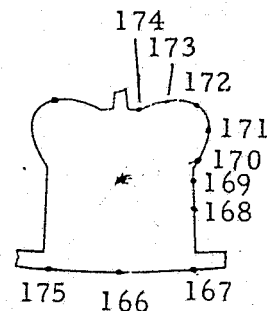
FUS STA 1245



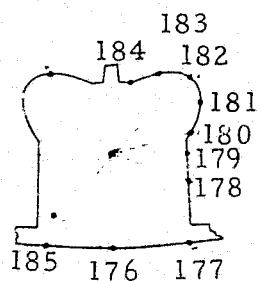
FUS STA 1300



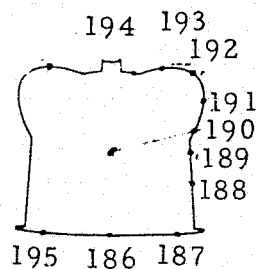
FUS STA 1375



FUS STA 1430



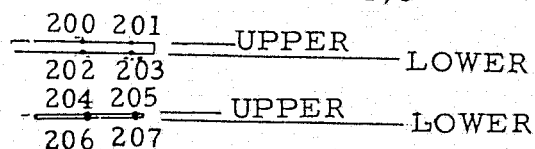
FUS STA 1480



BODY FLAP

FUS STA 1830

FUS STA 555

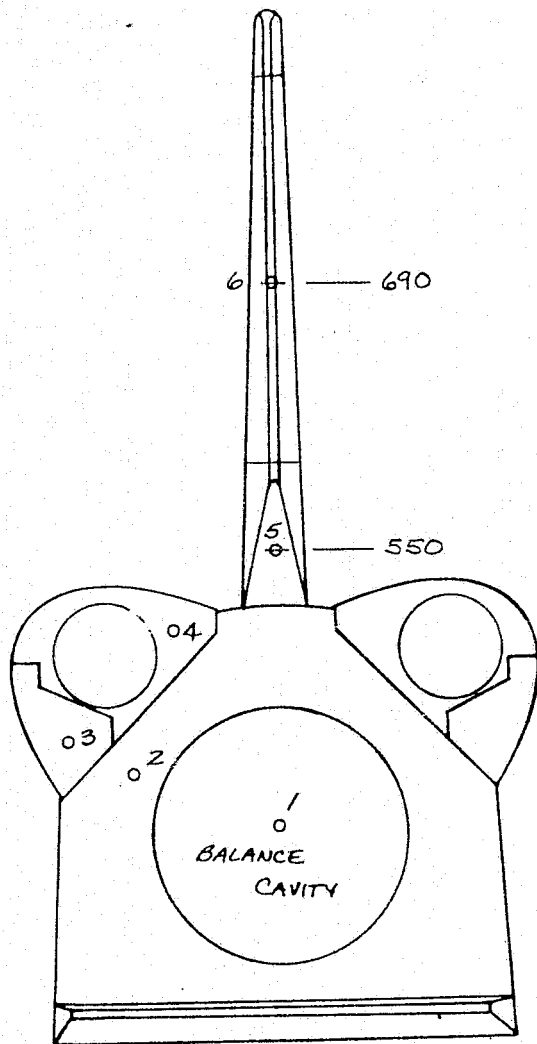


197 199
196 198 Z_o 400

FUS STA 590

g. Orbiter Aft Fuselage Pressure Tap Locations

Figure 2. - Continued.



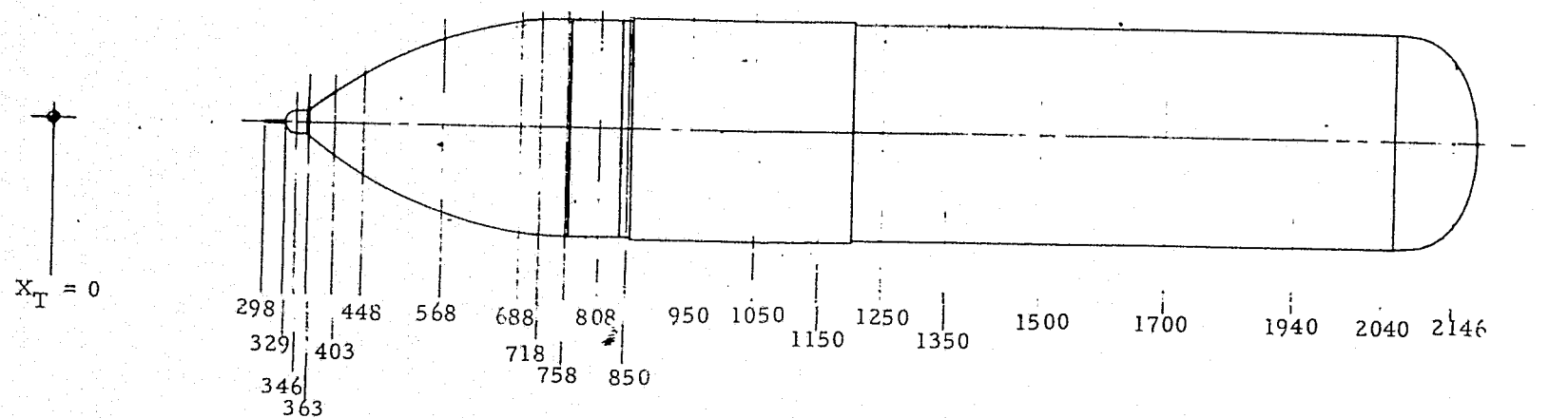
ORBITER BASE PRESSURE TAPS

BODY FLAP PRESSURE TAP NUMBERS

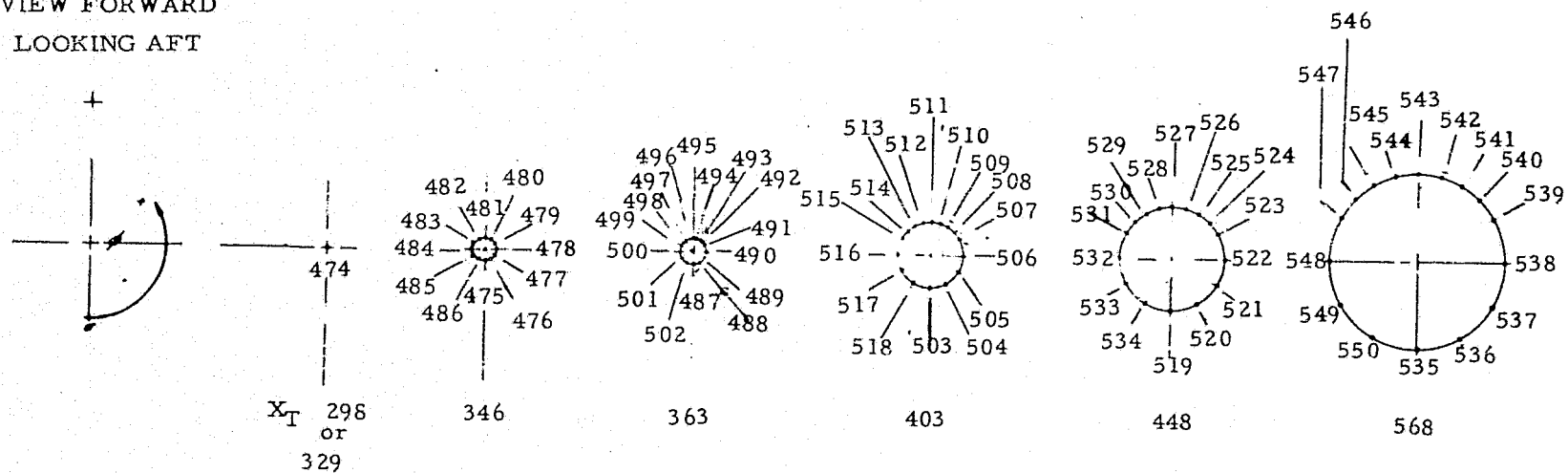
ORBITER ~ X ₀			Ø ~ DEG.			
FULL SCALE	MODEL SCALE	X ₀ /L ₀	0	40	NO TAPS	Σ NO TAPS
1555 _U	46.65		200	201	2	2
1555 _L	46.65		202	203	2	4
1590 _U	47.70		204	205	2	6
1590 _L	47.70		206	207	2	8

h. Orbiter Base Pressure Tap Locations

Figure 2. - Continued.

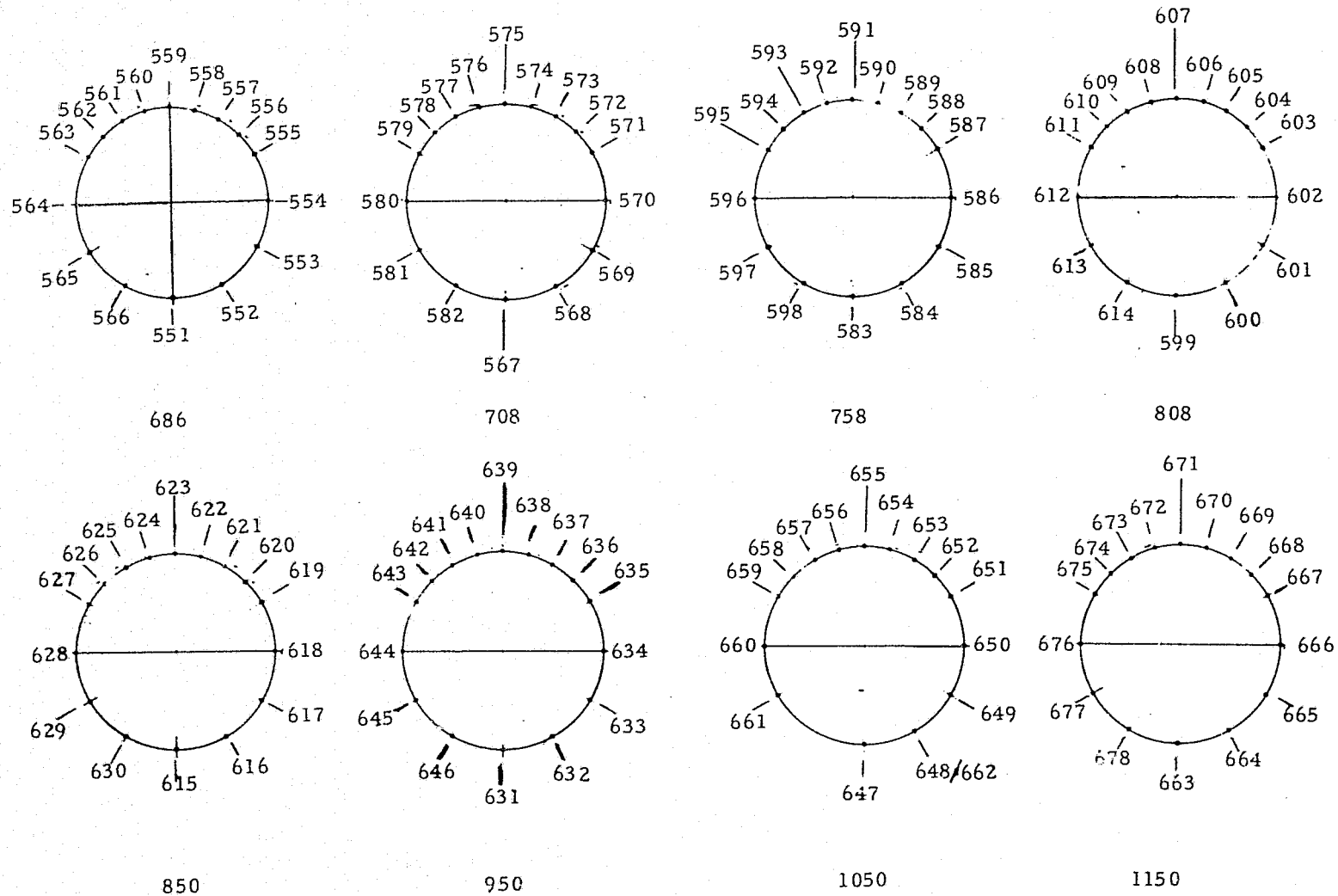


VIEW FORWARD
LOOKING AFT



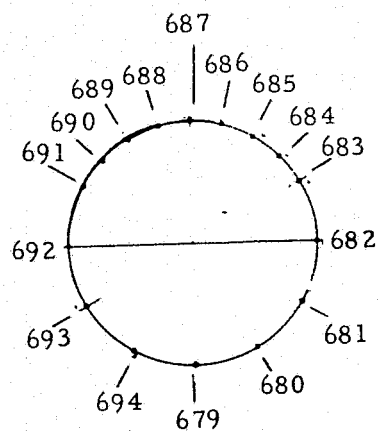
i. External Tank Forward Pressure Tap Locations

Figure 2. - Continued.

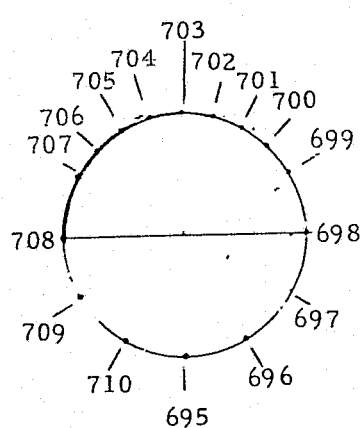


j. External Tank Mid Pressure Tap Locations

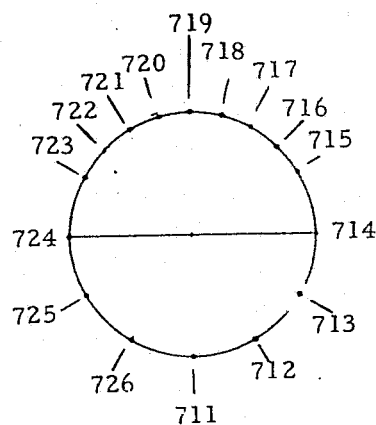
Figure 2. - Continued.



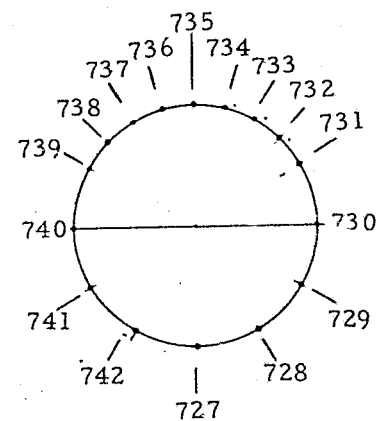
1250



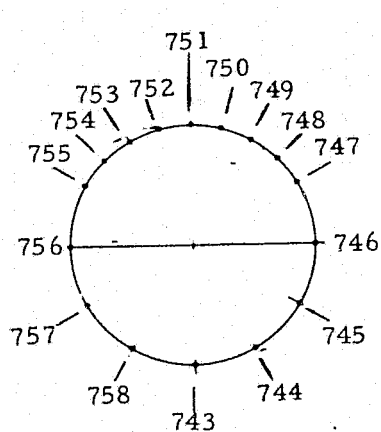
1350



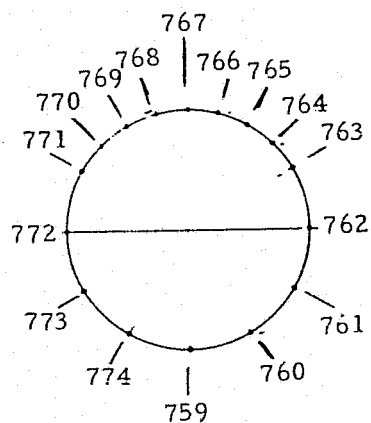
1500



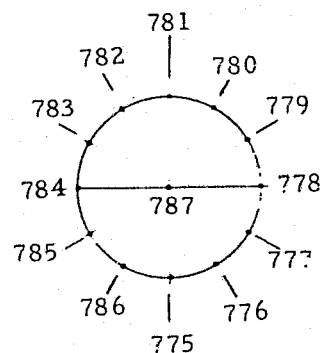
1700



1900

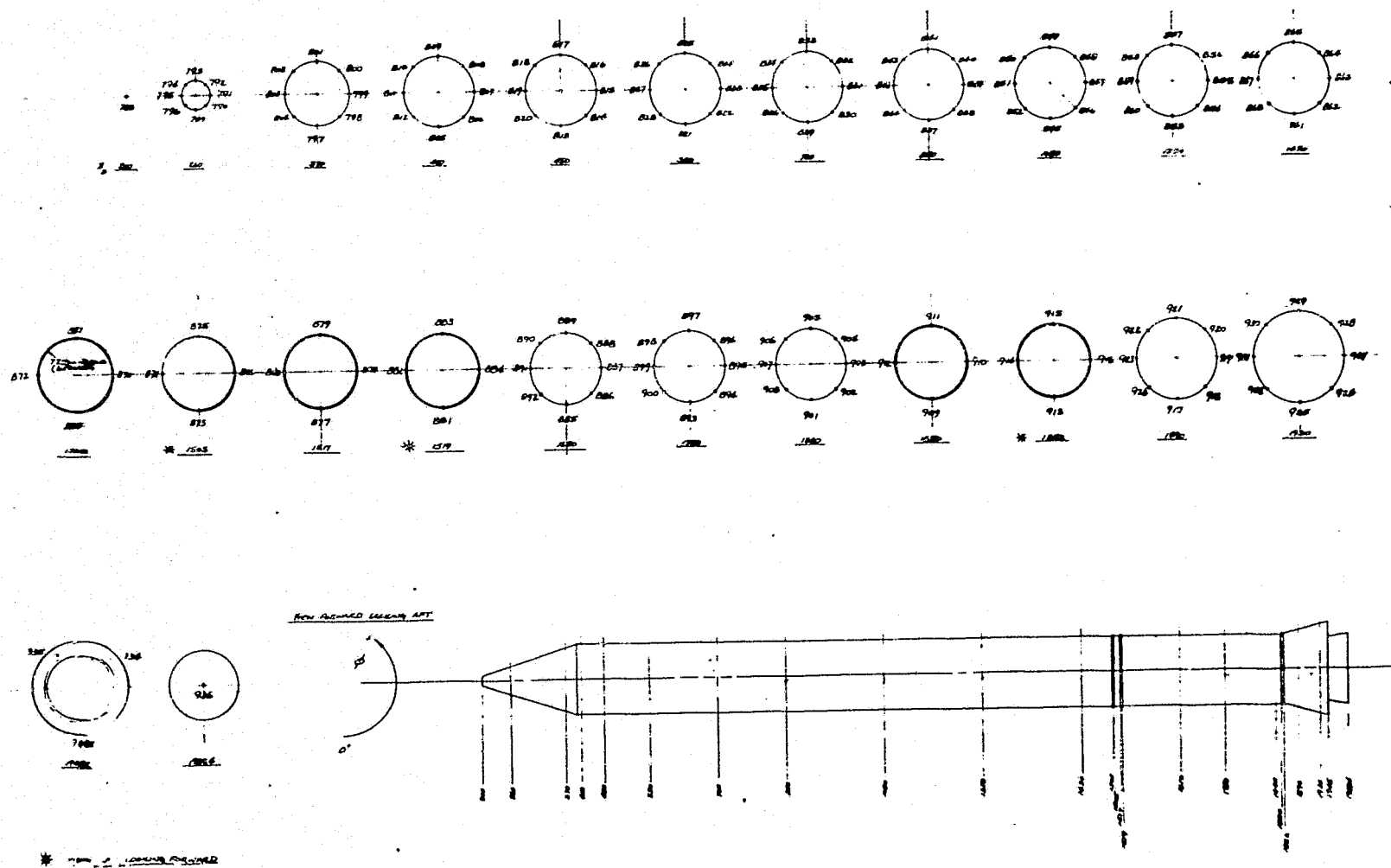


2040



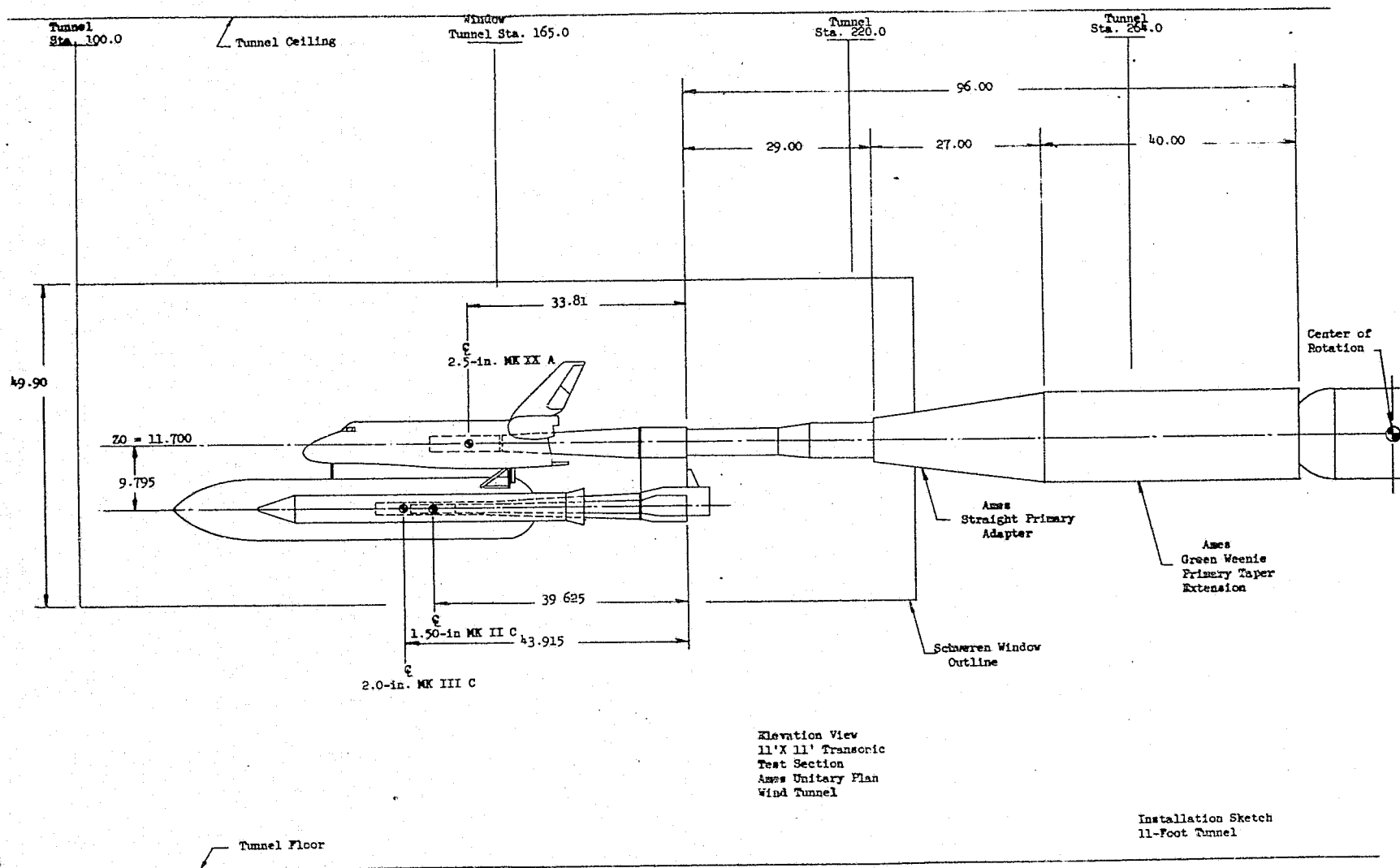
k. External Tank Aft Pressure Tap Locations

Figure 2. - Continued.



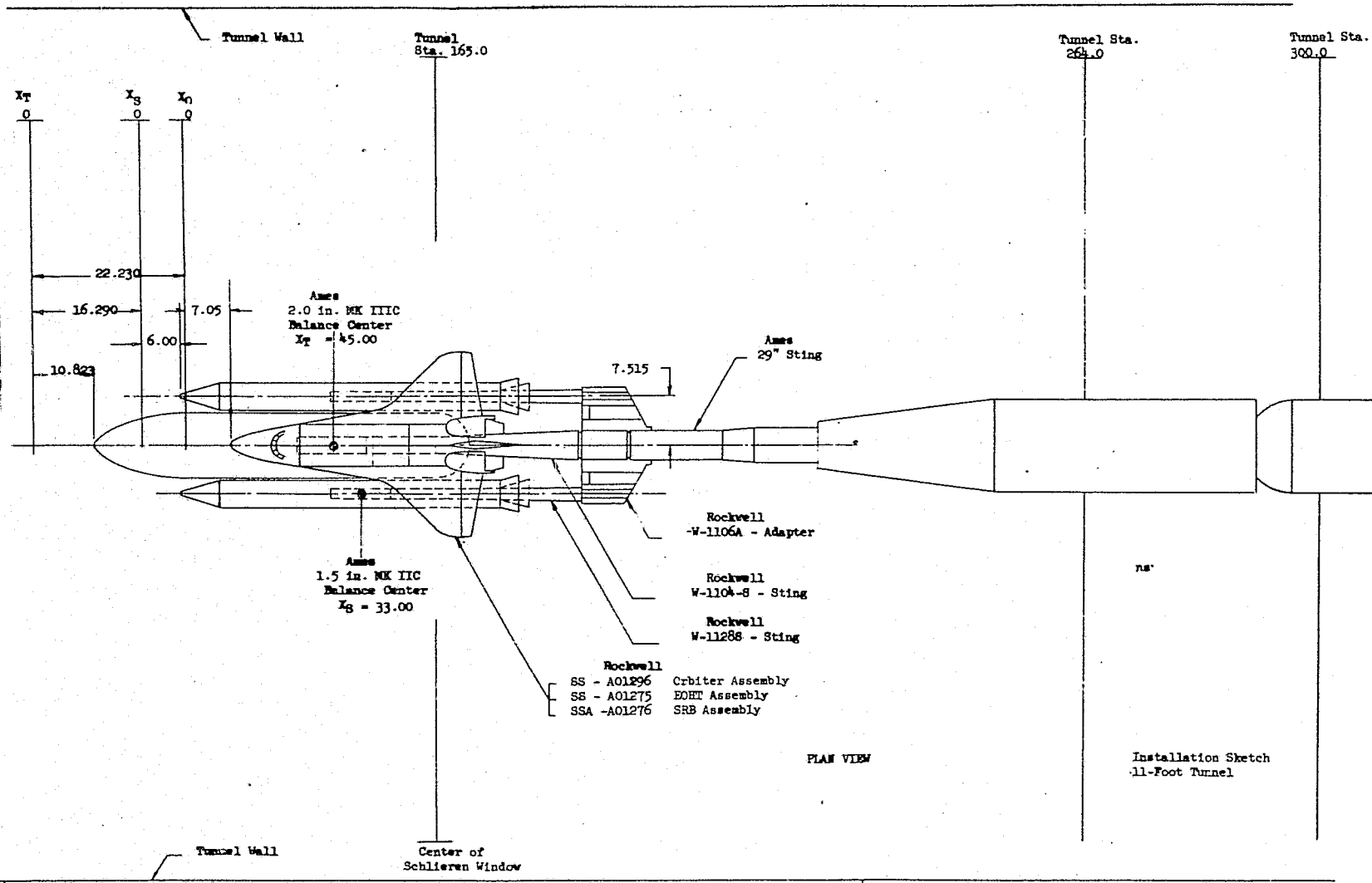
1. SRB Pressure Tap Locations

Figure 2. - Continued.



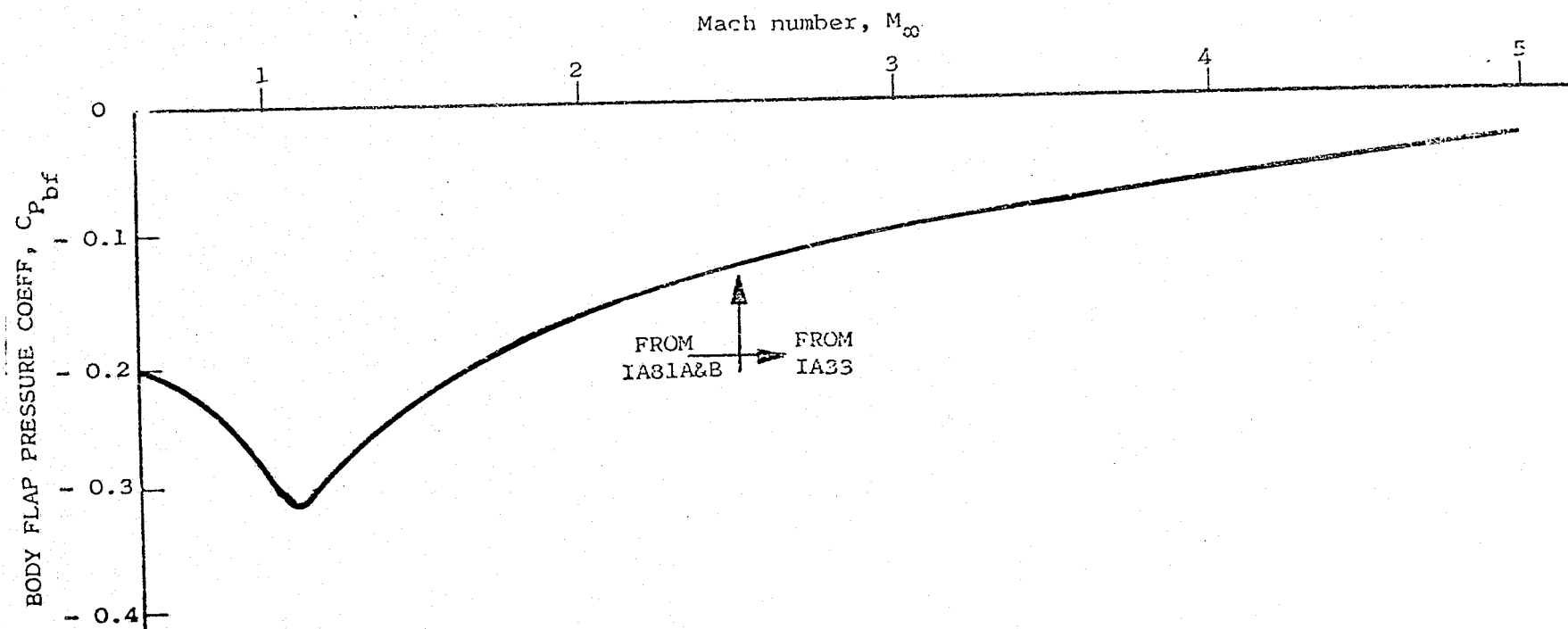
m. Model Installation Side View

Figure 2. - Continued.



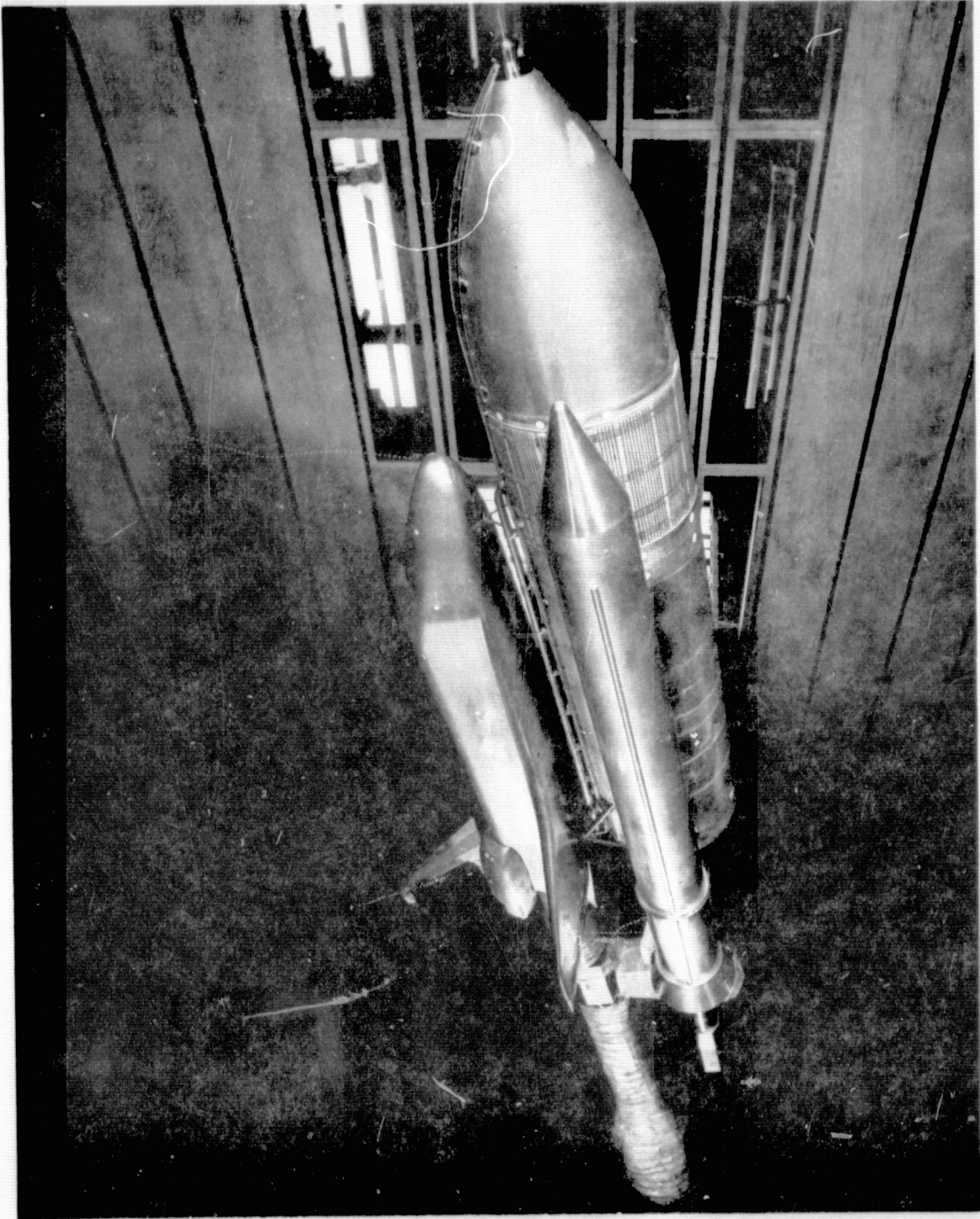
n. Model Installation Top View

Figure 2. - Continued.



o. Orbiter Body Flap Pressure Coefficients

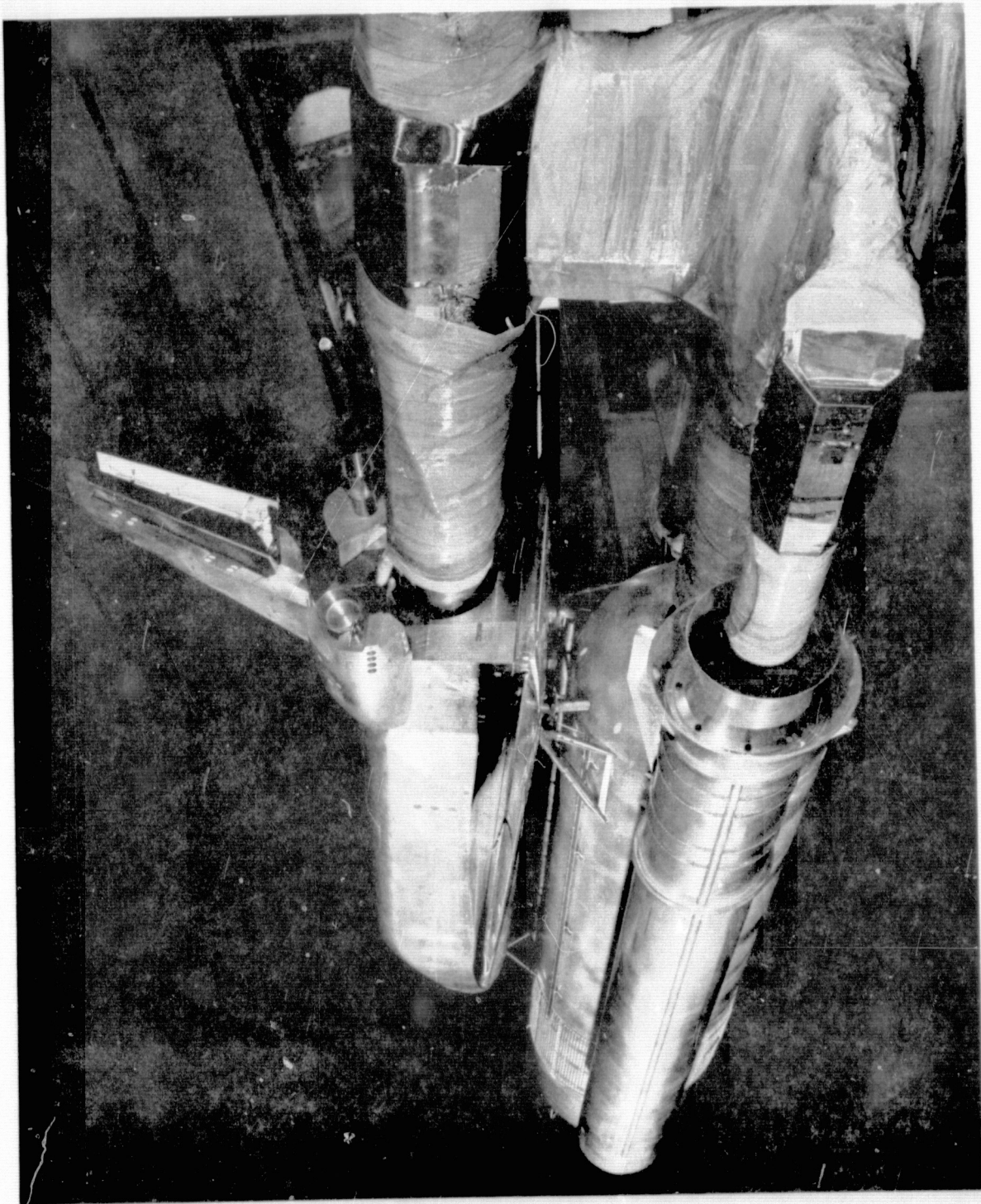
Figure 2. - Concluded.



a. Side View

Figure 3. - Model photographs.

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b. Rear View

Figure 3. - Concluded.

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OF POOR QUALITY

DATA FIGURES

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ARC11-019 IA81 LVAP(ELHL UNSEALD) ORB. FUSELAGE (IETB06)

SYMBOL	PHI	BETA0	ALPHA0
○	.000	-4.000	-4.000
□	40.000		
◇	70.000		
△	90.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

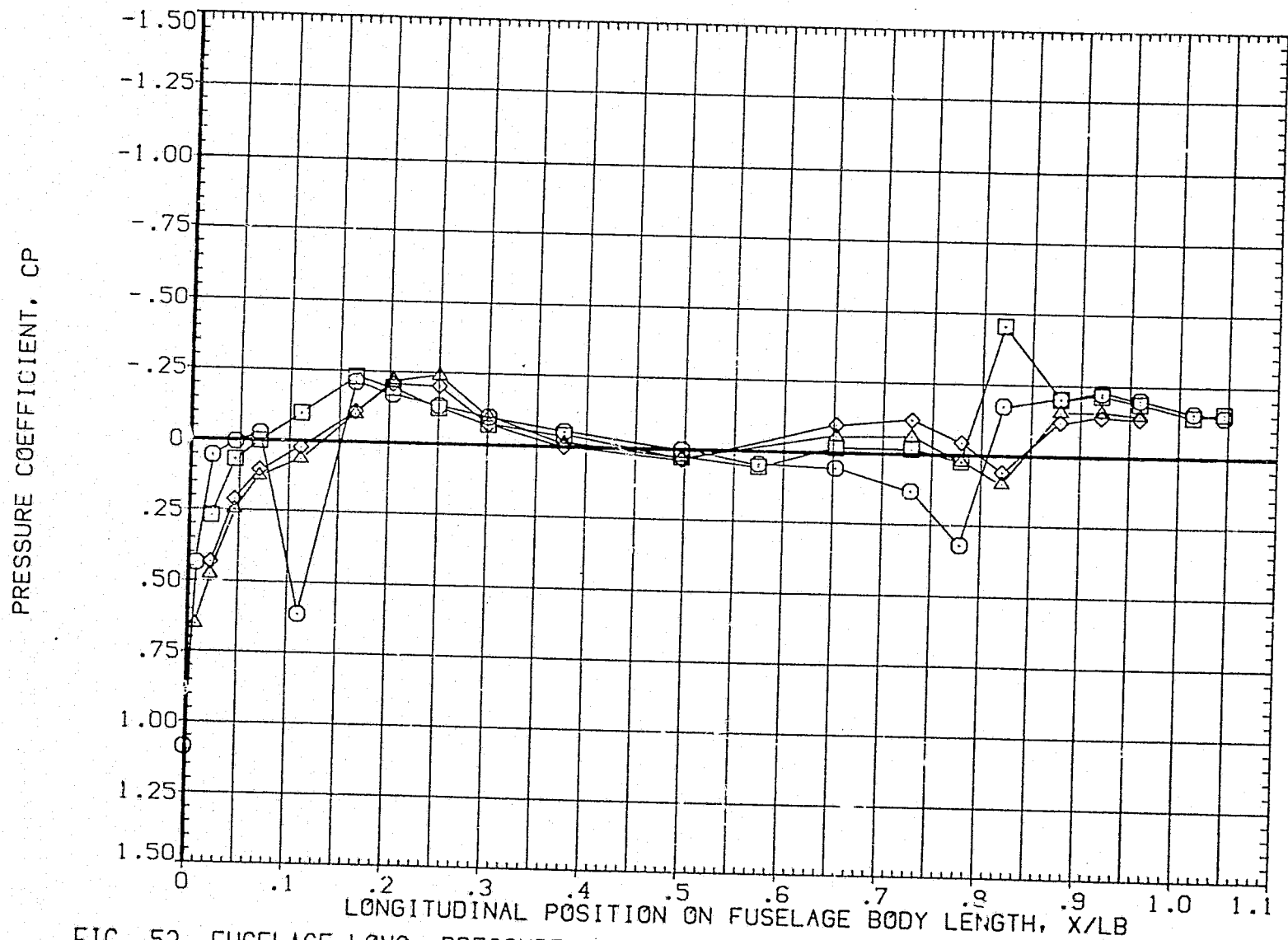


FIG. 52 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

ARC11-019 1A81 LVAP(ELHL UNSEALD) ORB. FUSELAGE (IETB06)

SYMBOL	PHI	BETA0	ALPHA0
○	120.000	-4.000	-4.000
□	150.000		
◇	165.000		
△	180.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

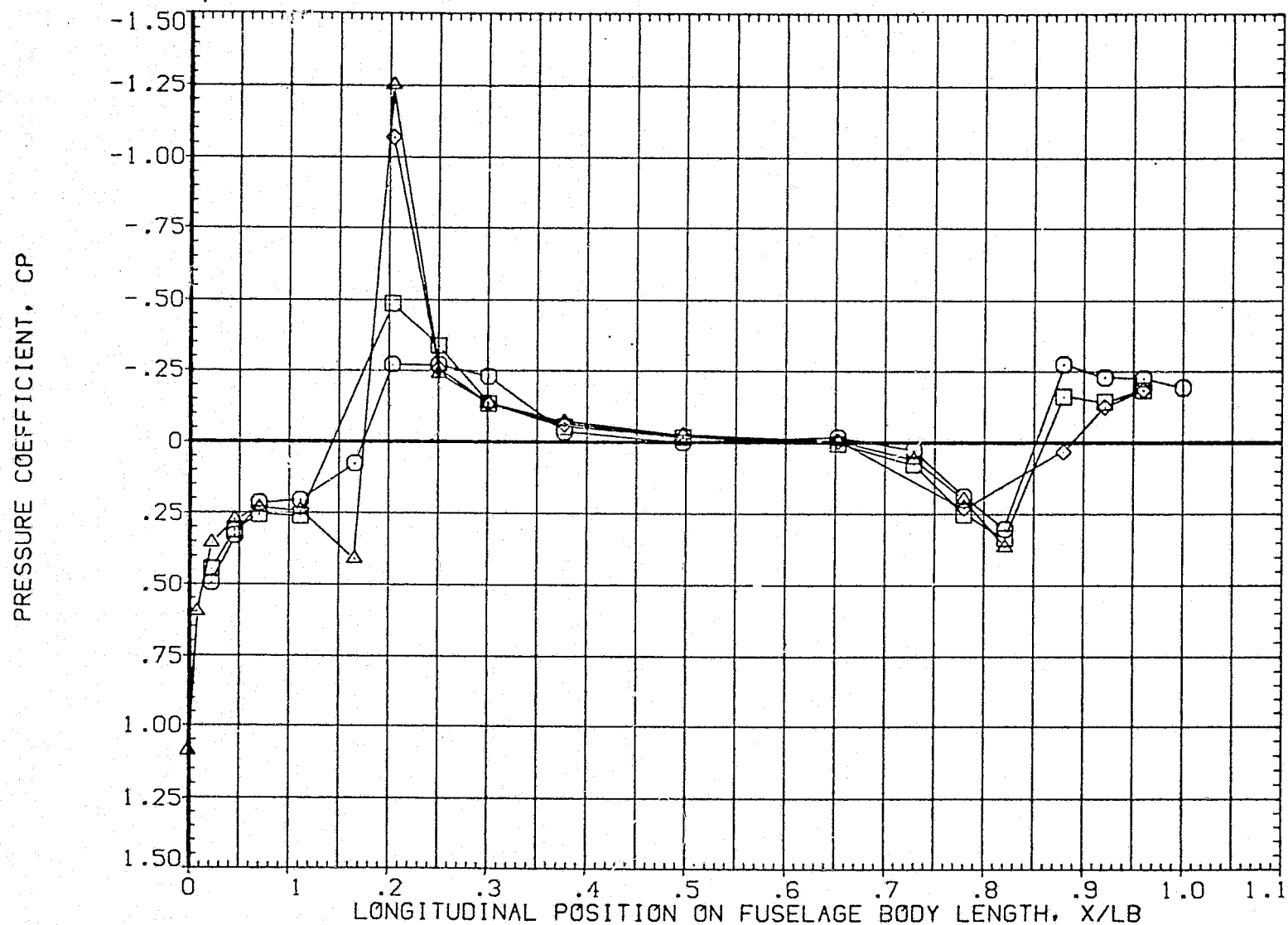


FIG. 52 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

ARC11-019 1A81 LVAP(ELHL UNSEALD) ORB. FUSELAGE (IETB06)

SYMBOL	PHI	BETA0	ALPHA0
○	.000	.000	-4.000
□	40.000		
◇	70.000		
△	90.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

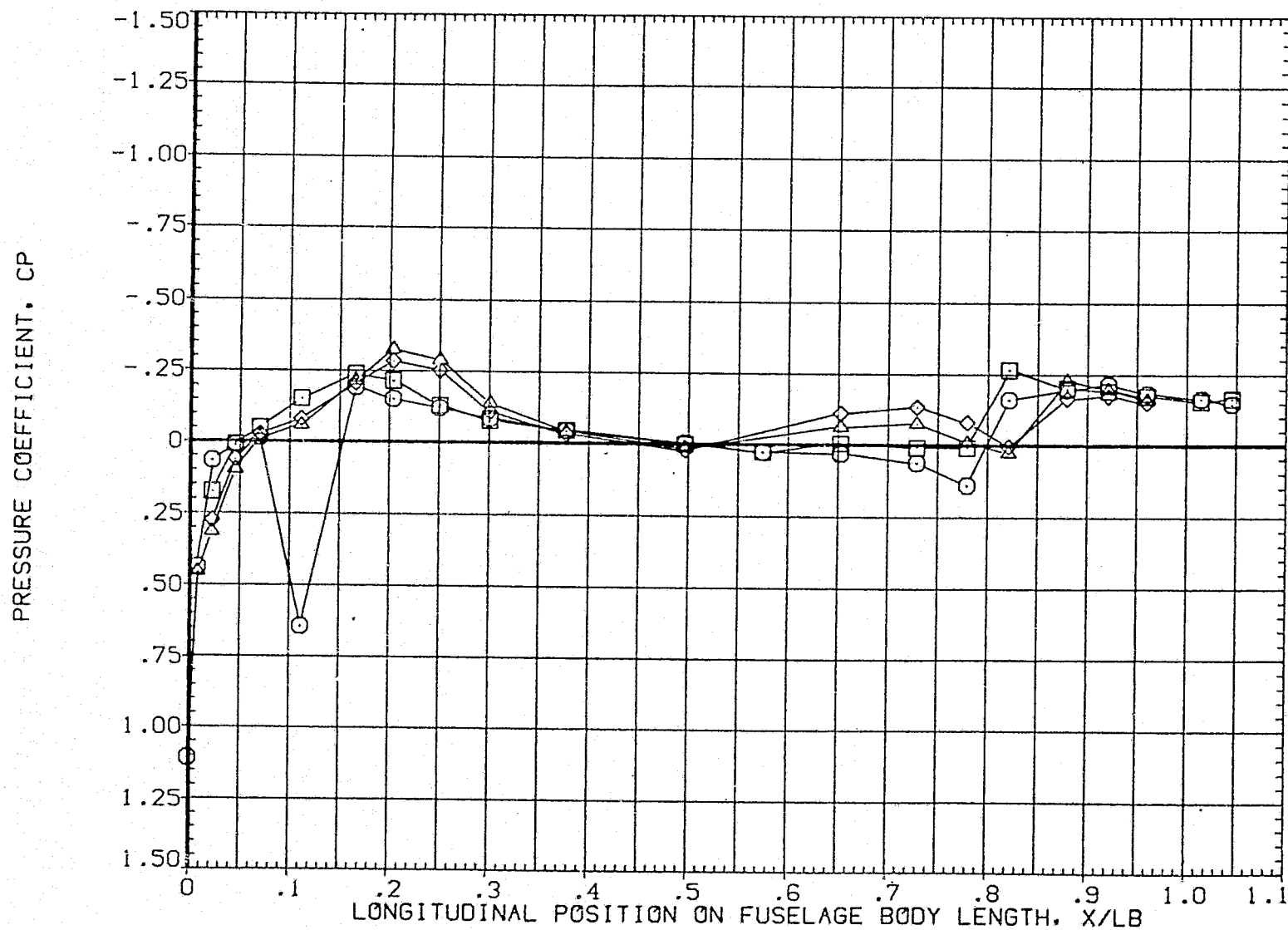


FIG. 52 FUSELAGE LONG. PRESSURE DIST. ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 0.6

ARC11-019 IA81 LVAP(ELHL UNSEALD) ORB. FUSELAGE (IETB06)

SYMBOL	PHI	BETA0	ALPHA0
○	120.000	.000	-4.000
□	150.000		
◇	165.000		
△	180.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

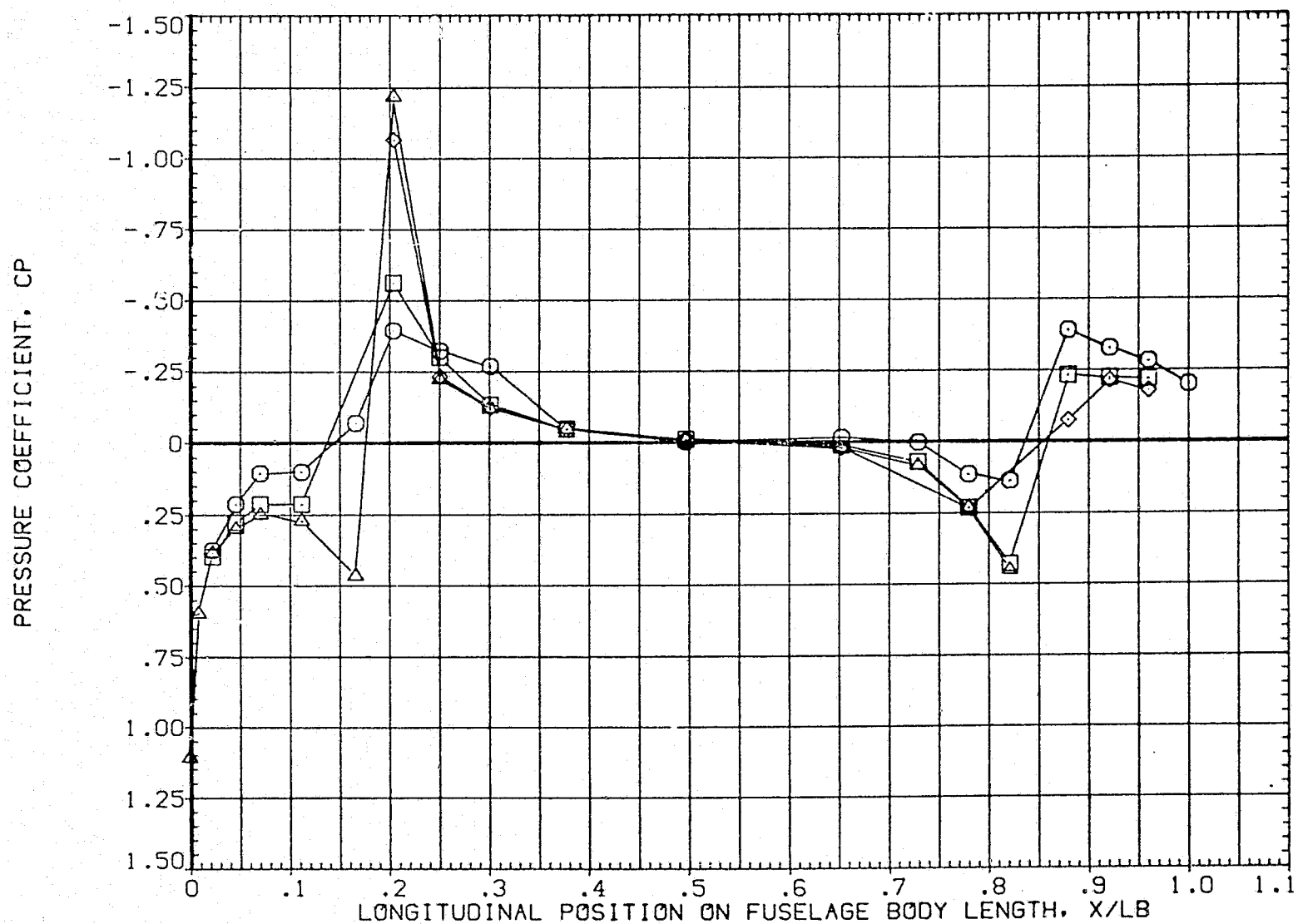


FIG. 52 FUSELAGE LONG. PRESSURE DIST. ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 0.6

SYMBOL	PHI	BETA0	ALPHA0
○	.000	4.000	-4.000
□	40.000		
◇	70.000		
△	90.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

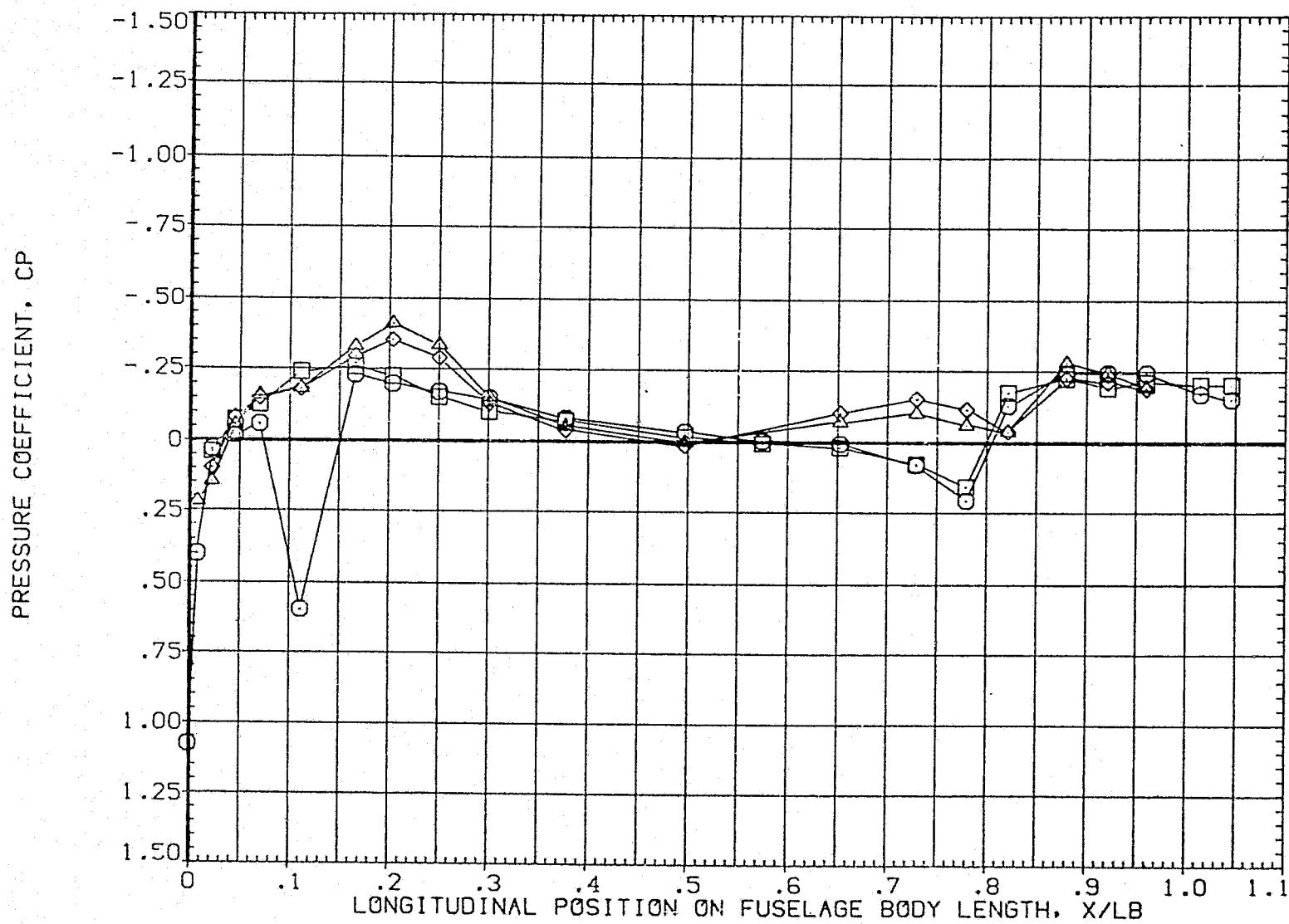


FIG. 52 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

ARC11-019 IA81 LVAP(ELHL UNSEALD) ORB. FUSELAGE (IETB06)

SYMBOL	PHI	BETA0	ALPHA0
○	120.000	4.000	-4.000
□	150.000		
◇	165.000		
△	180.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

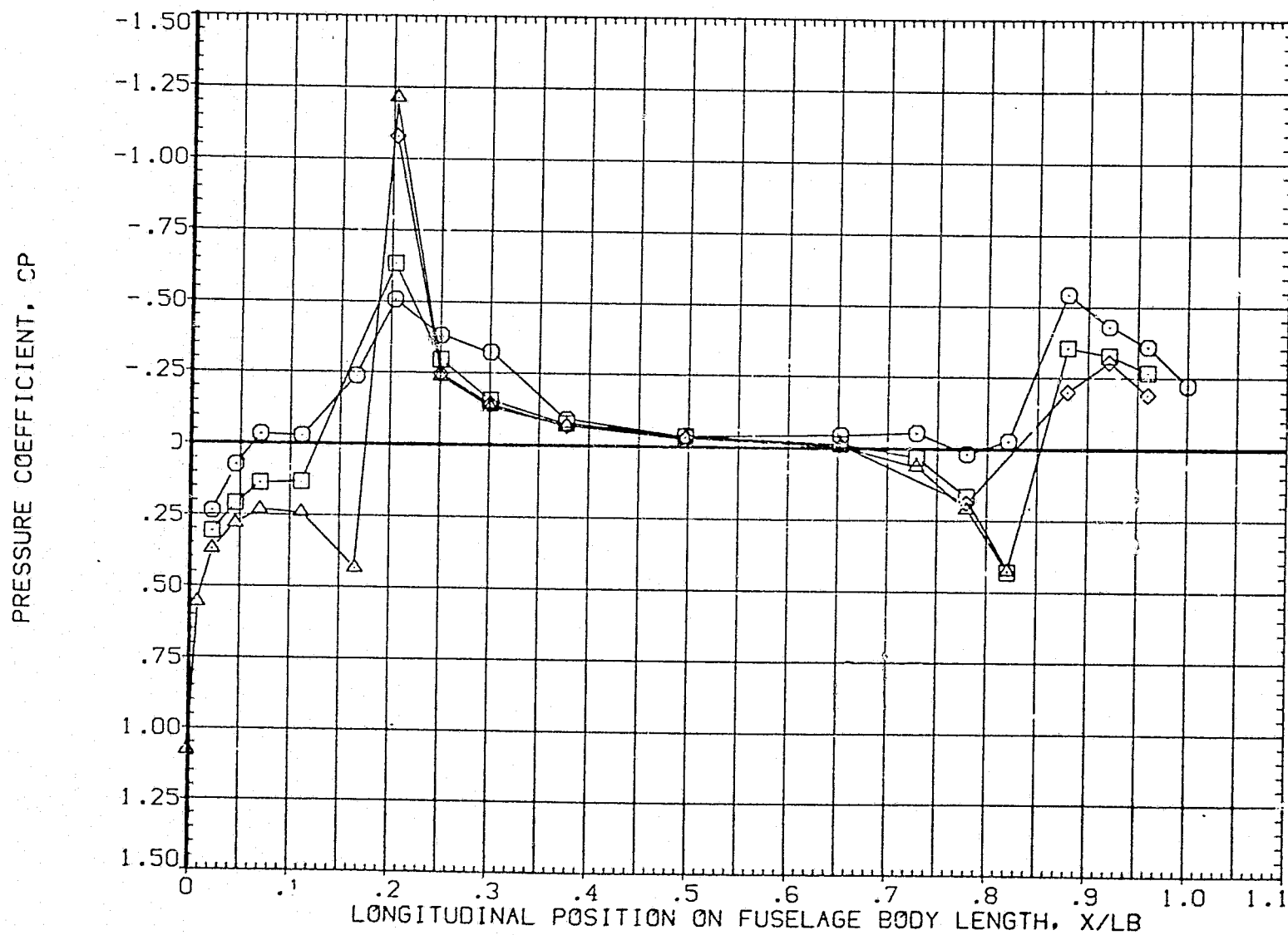


FIG. 52 FUSELAGE LONG. PRESSURE DIST. ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 0.6

ARC11-019 1A81 LVAP(ELHL UNSEALD) ORB. FUSELAGE (IETB06)

SYMBOL	PHI	BETA0	ALPHA0
○	.000	-4.000	.000
□	40.000		
◇	70.000		
△	90.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

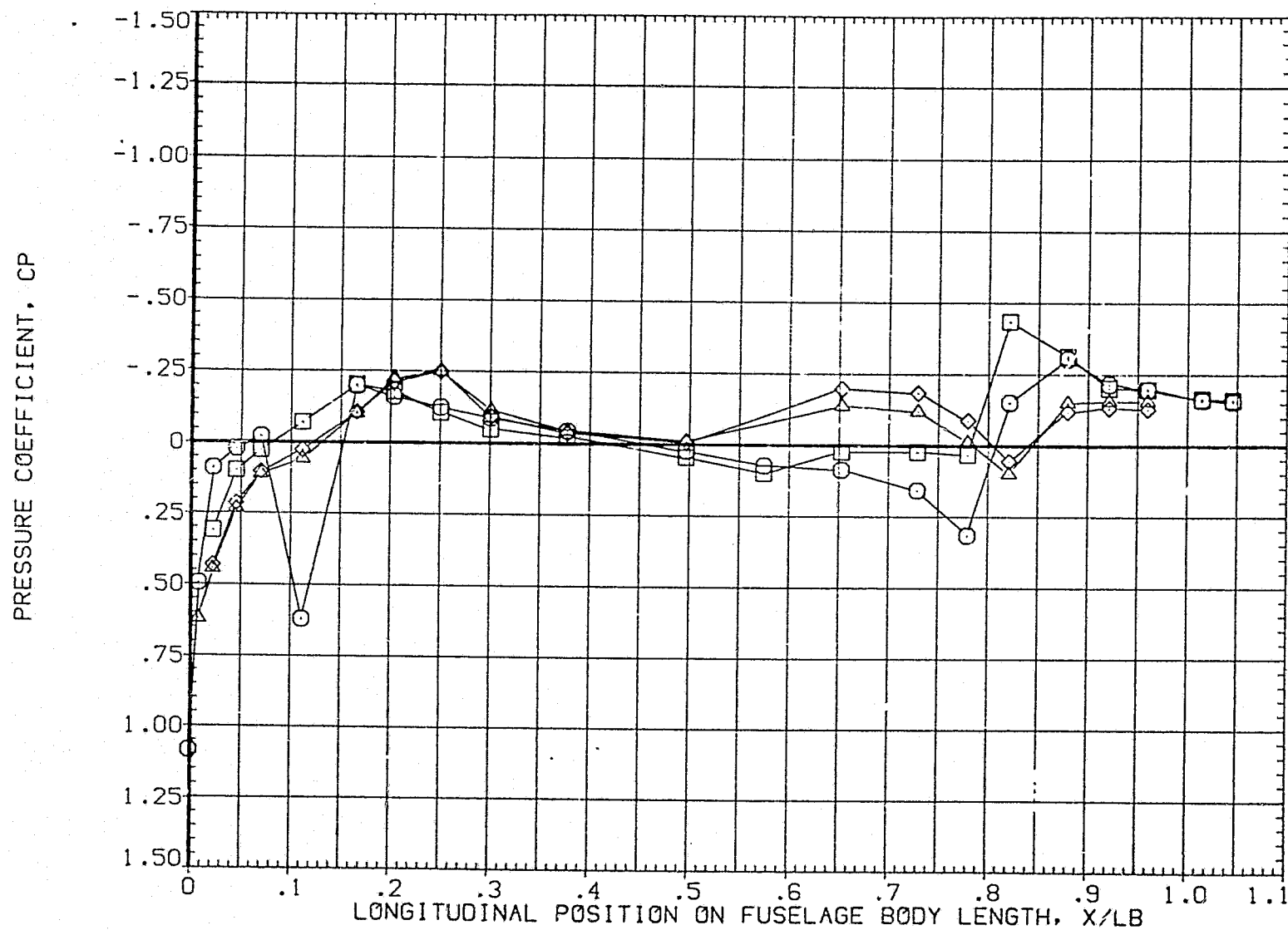


FIG. 52 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

ARC11-019 1A81 LVAP(ELHL UNSEALD) ORB. FUSELAGE (IETB06)

SYMBOL	PHI	BETA0	ALPHA0
○	120.000	-4.000	.000
□	150.000		
◇	165.000		
△	180.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

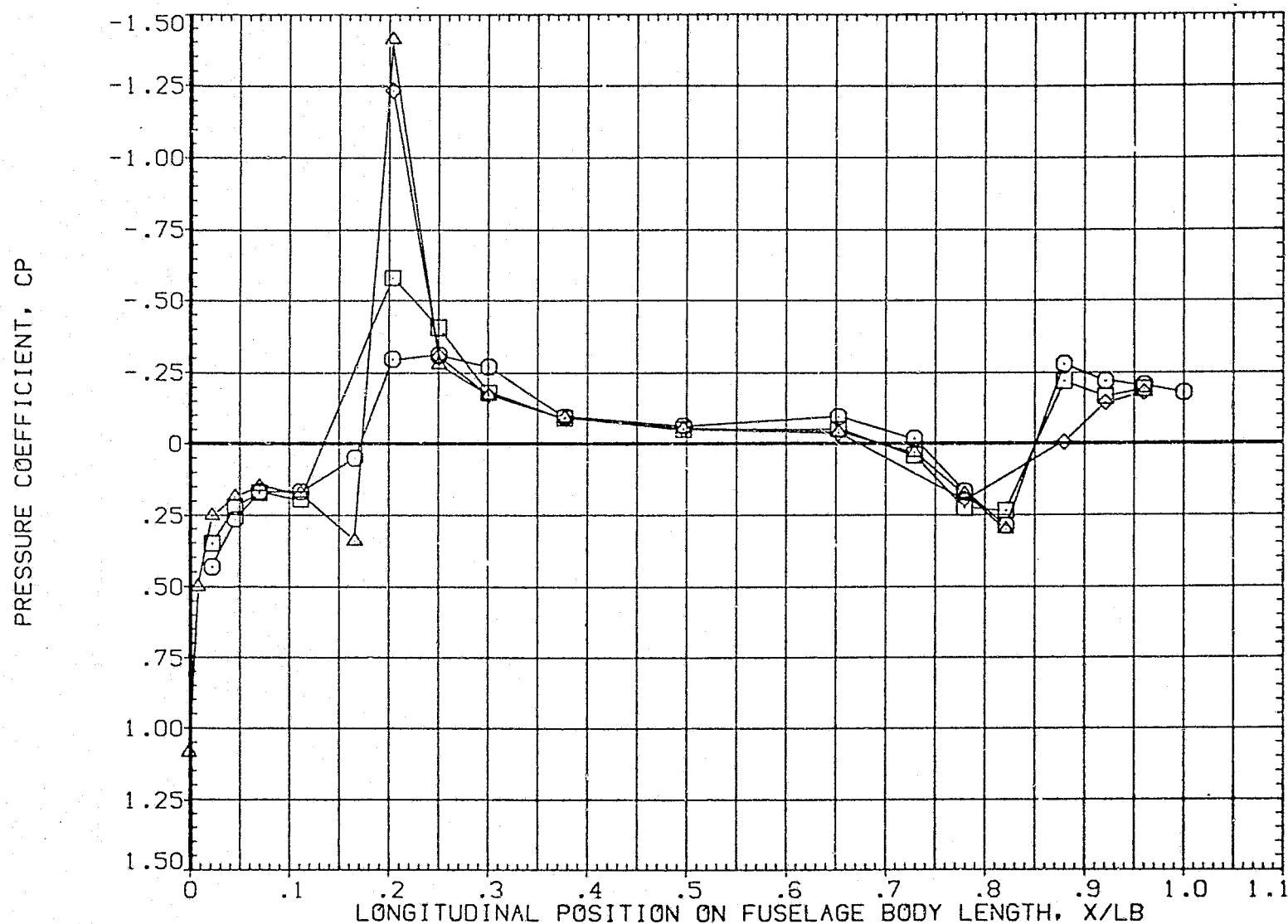


FIG. 52 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

SYMBOL	PHI	BETA0	ALPHA0
○	.000	.000	.000
□	40.000		
◇	70.000		
△	90.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

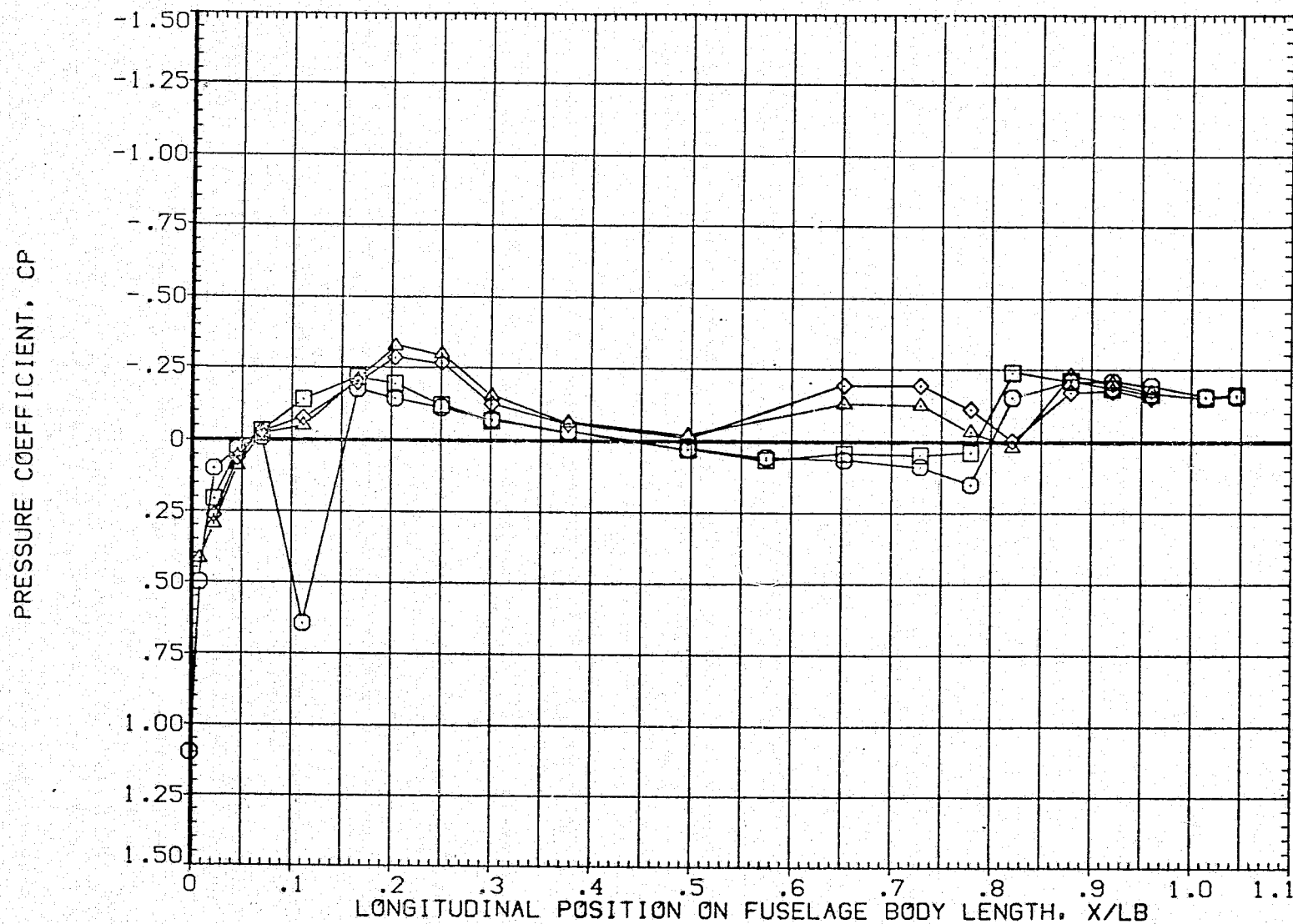


FIG. 52 FUSELAGE LONG. PRESSURE DIST. ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 0.6

ARC11-019 1A81 LVAP(ELHL UNSEALD) ORB. FUSELAGE (IETB06)

SYMBOL	PHI	BETA0	ALPHA0
○	120.000	.000	.000
□	150.000		
◇	165.000		
△	180.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

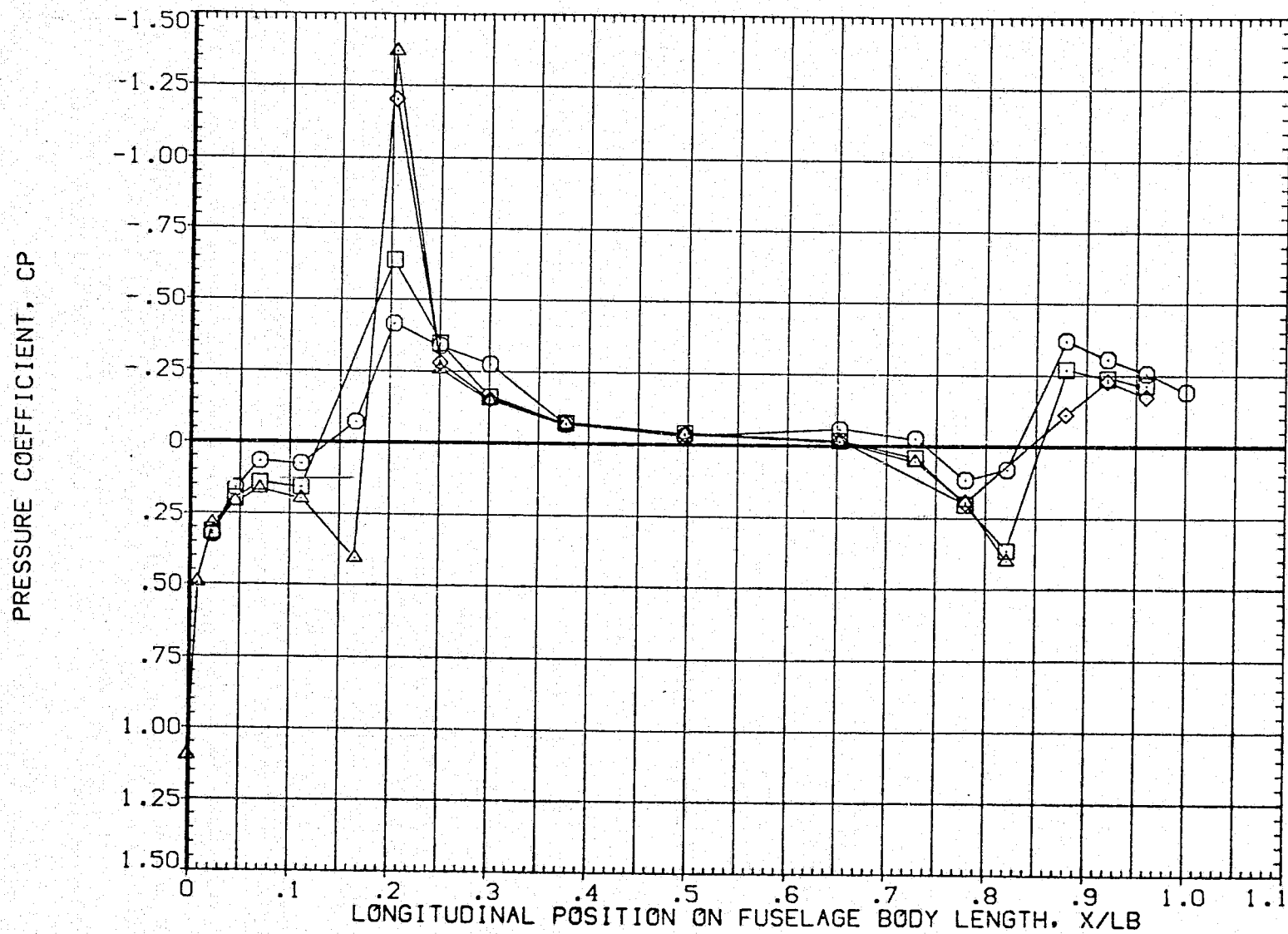


FIG. 52 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

SYMBOL	PHI	BETA0	ALPHA0
○	.000	4.000	.000
□	40.000		
◇	70.000		
△	90.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

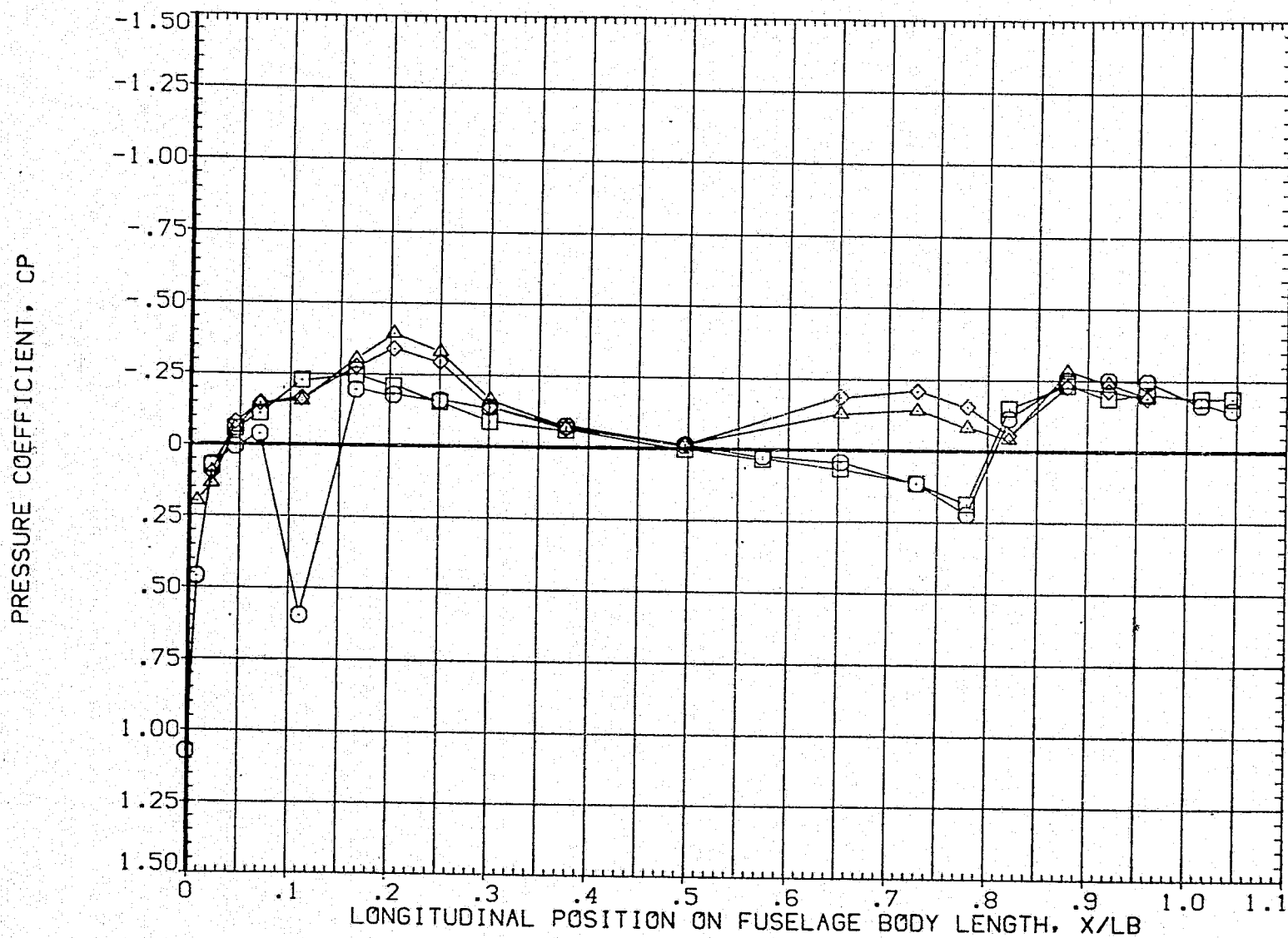


FIG. 52 FUSELAGE LONG. PRESSURE DIST. ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 0.6

ARC11-019 1A81 LVAP(ELHL UNSEALD) ORB. FUSELAGE (IETB06)

SYMBOL	PHI	BETA0	ALPHA0
○	120.000	4.000	.000
□	150.000		
◇	165.000		
△	180.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

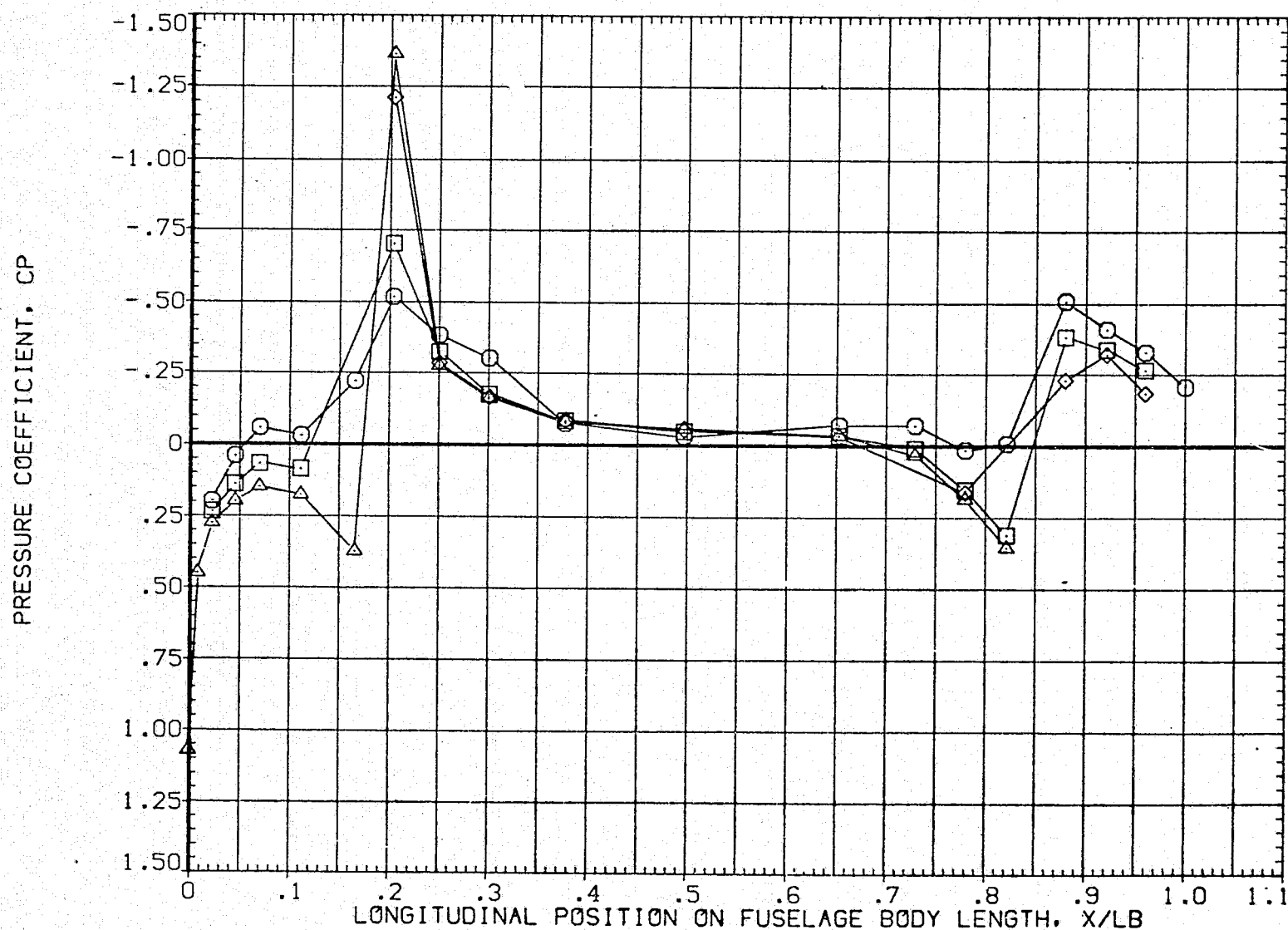


FIG. 52 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK =0, MACH = 0.6

SYMBOL	PHI	BETA0	ALPHA0
○	.000	-4.000	4.000
□	40.000		
◇	70.000		
△	90.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

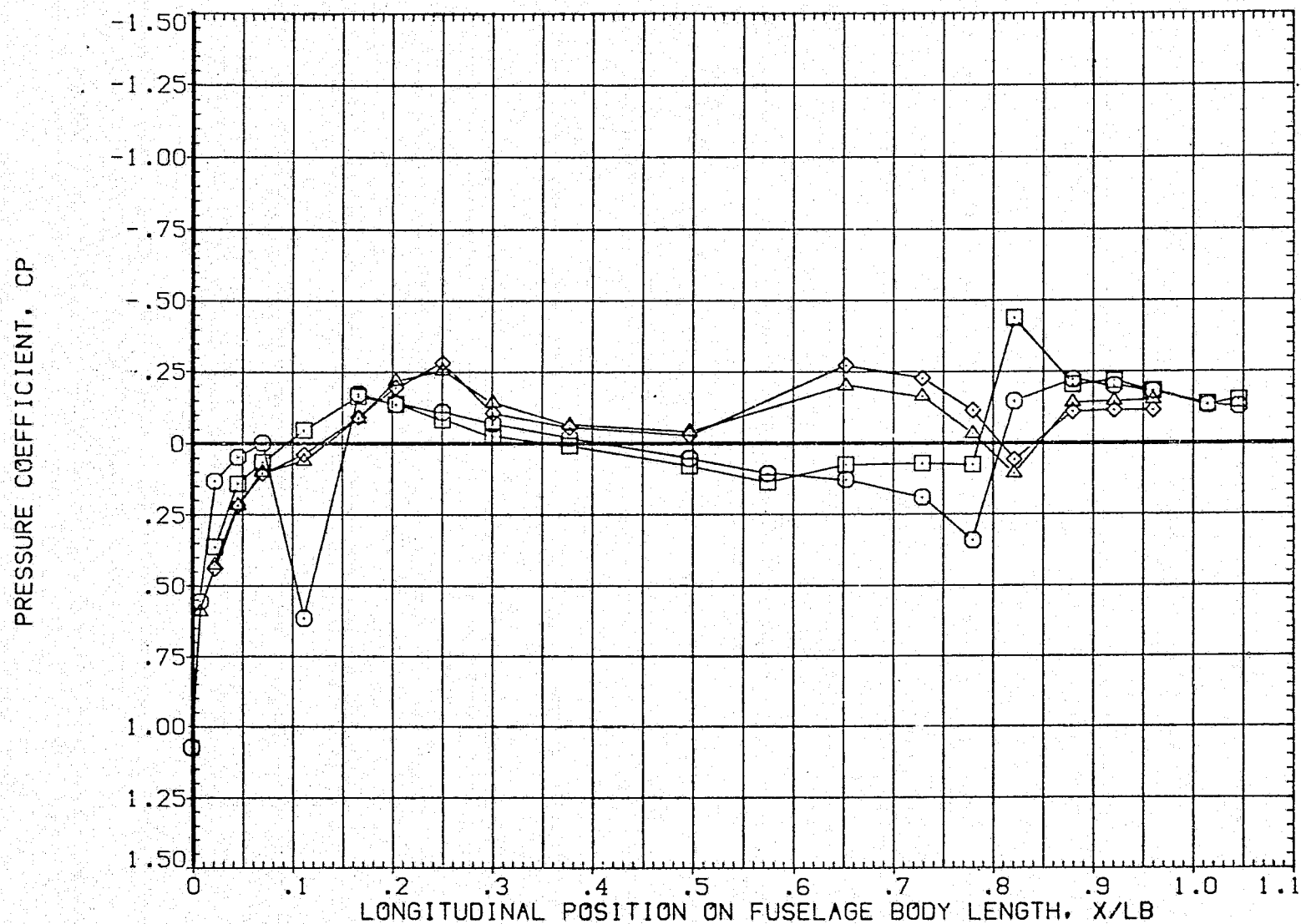


FIG. 52 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

ARC11-019 IA81 LVAP(ELHL UNSEALD) ORB. FUSELAGE (IETB06)

SYMBOL	PHI	BETA0	ALPHA0
○	120.000	-4.000	4.000
□	150.000		
◇	165.000		
△	180.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

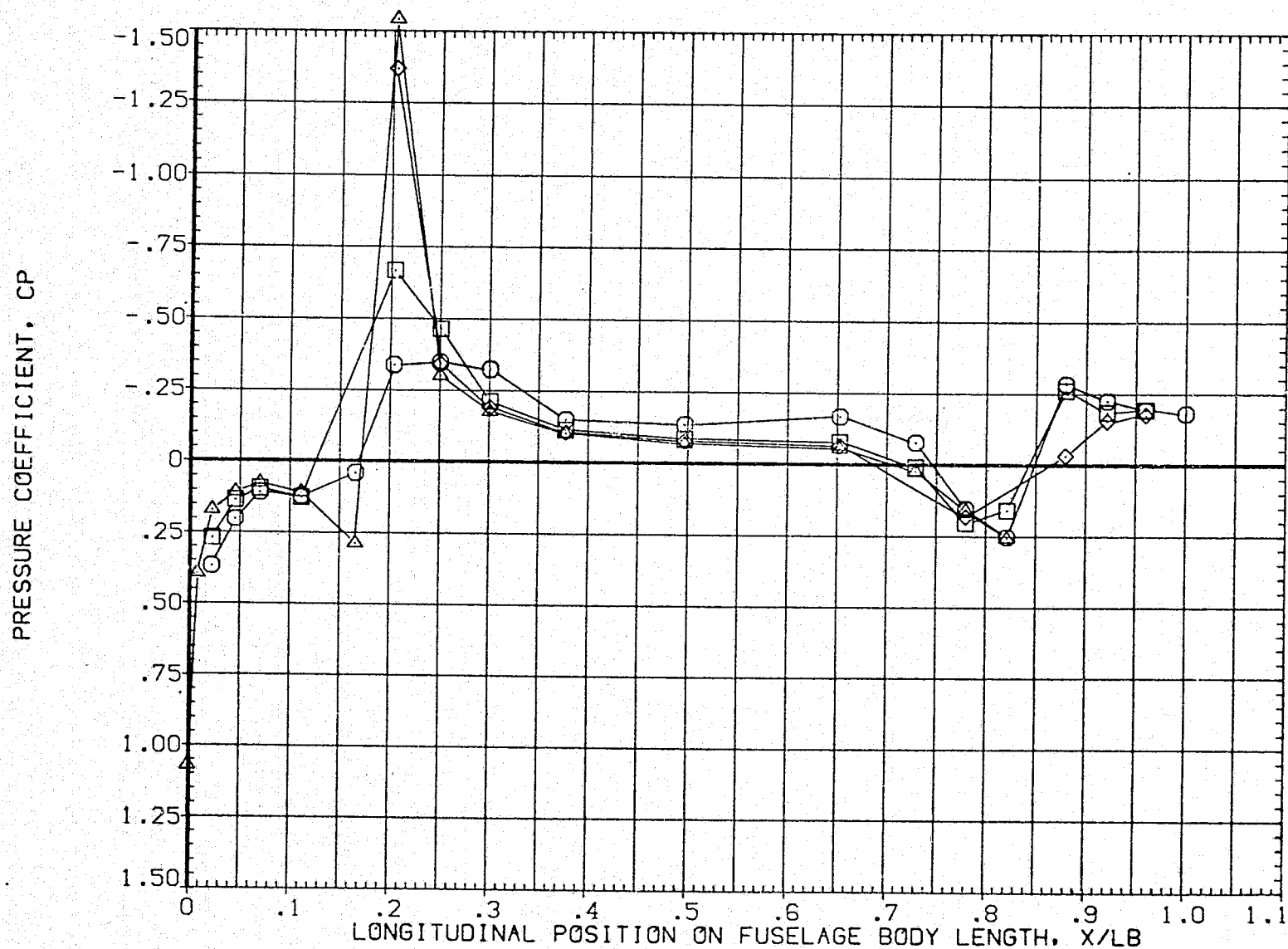


FIG. 52 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

SYMBOL	PHI	BETA0	ALPHA0
○	.000	.000	4.000
□	40.000		
◇	70.000		
△	90.000		

PARAMETRIC VALUES			
MACH	.60	RN/FT	2.250
ELV-IB	8.000	EI V-OB	4.070
RUDDER	.000	SPDBRK	.000

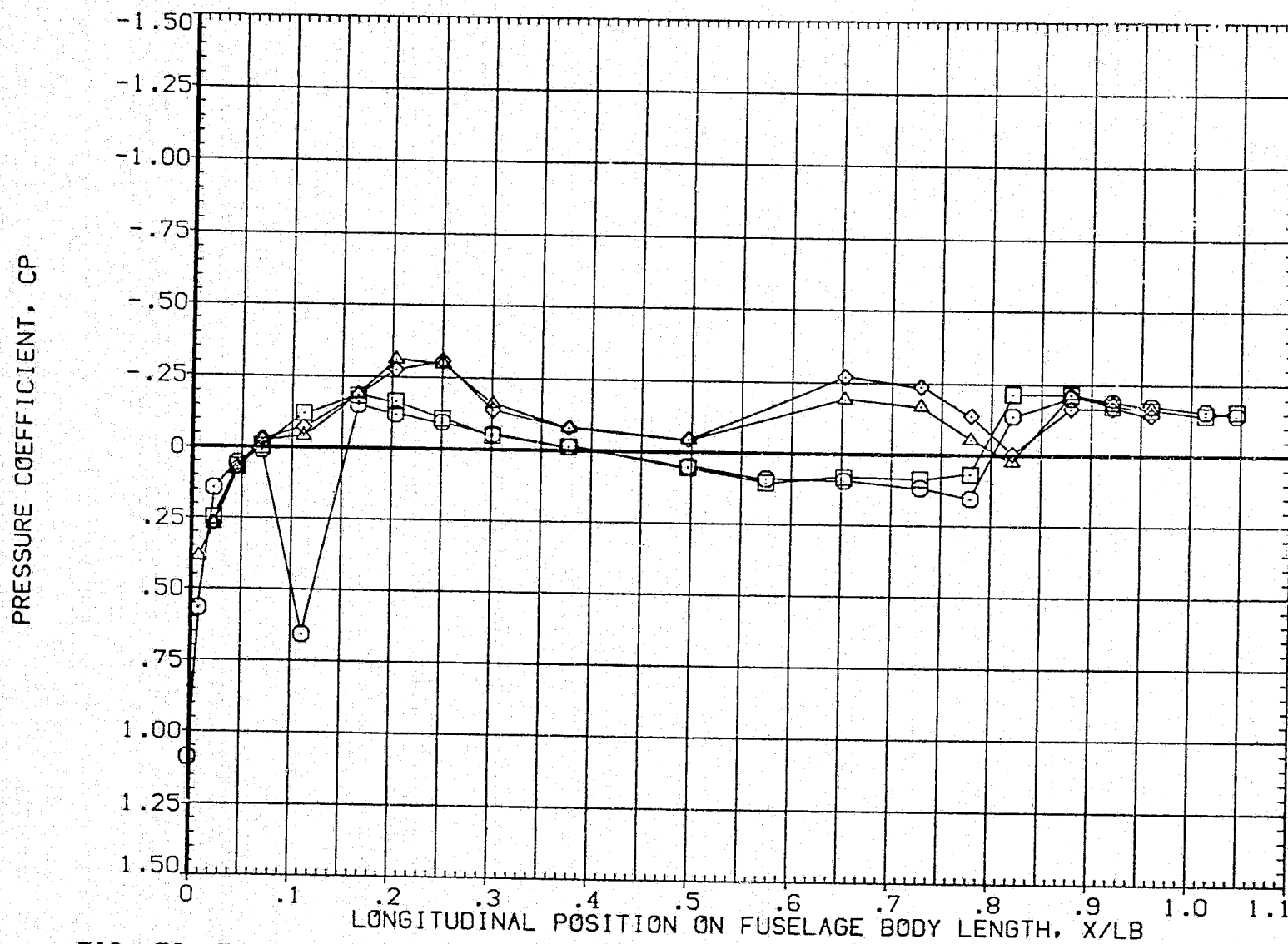


FIG. 52 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

ARC11-019 IA81 LVAP(ELHL UNSEALD) ORB. FUSELAGE (IETB06)

SYMBOL	PHI	BETA0	ALPHA0
○	120.000	.000	4.000
□	150.000		
◇	165.000		
△	180.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

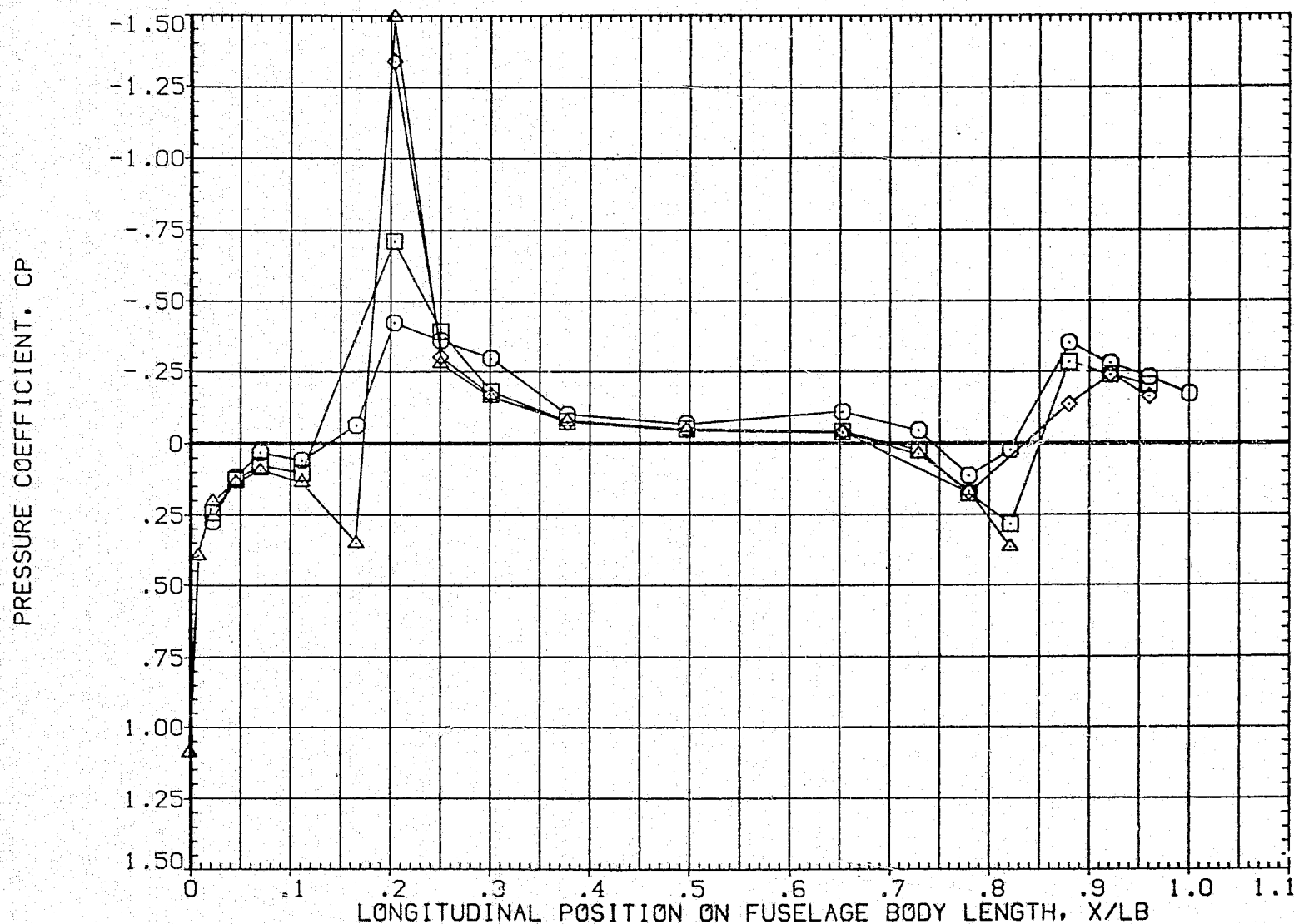


FIG. 52 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

SYMBOL	PHI	BETA0	ALPHA0
○	.000	4.000	4.000
□	40.000		
◇	70.000		
△	90.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

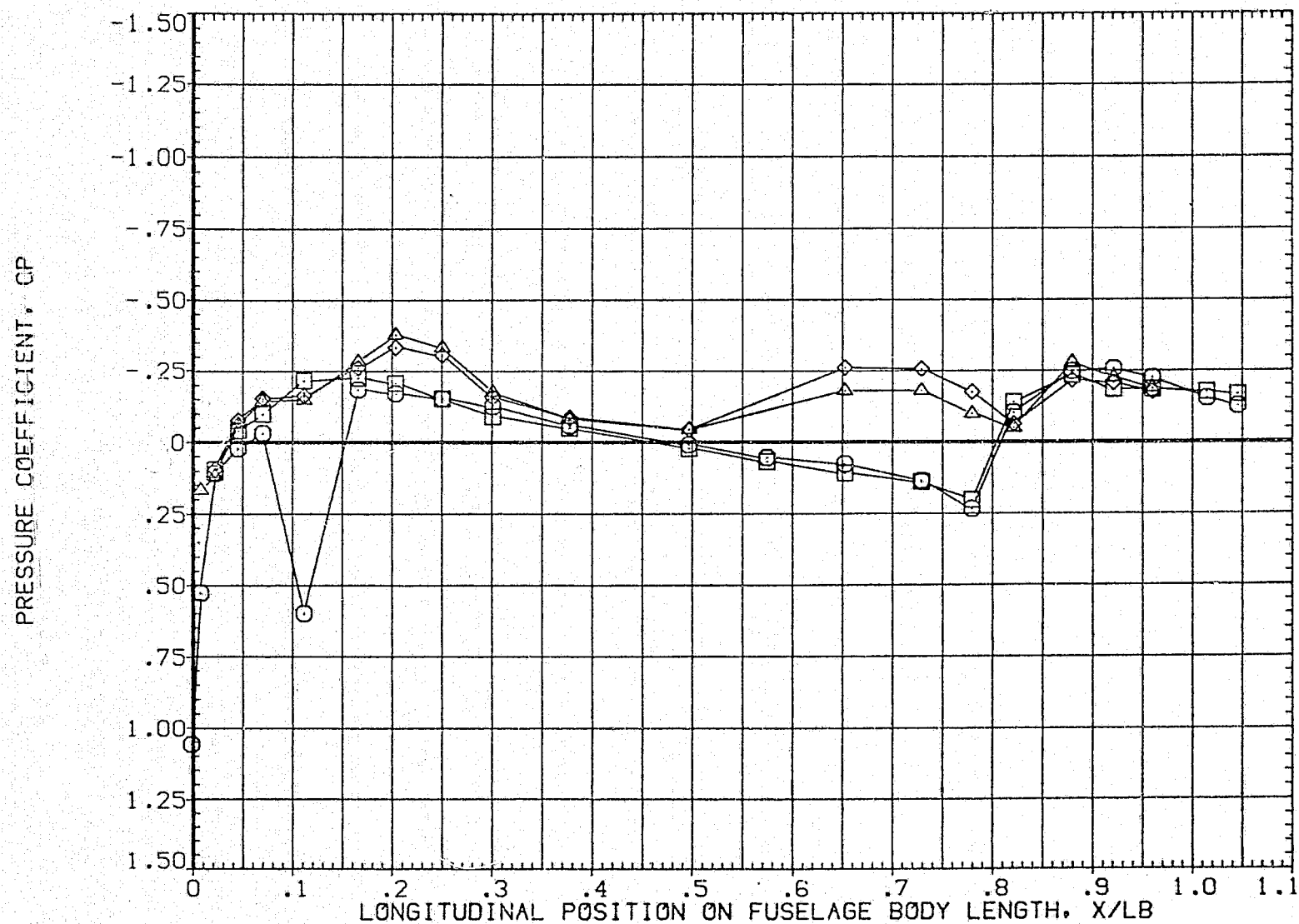


FIG. 52 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

ARC11-019 1A81 LVAP(ELHL UNSEALD) ORB. FUSELAGE (IETB06)

SYMBOL	PHI	BETA0	ALPHA0
○	120.000	4.000	4.000
□	150.000		
◇	165.000		
△	180.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV	.8	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

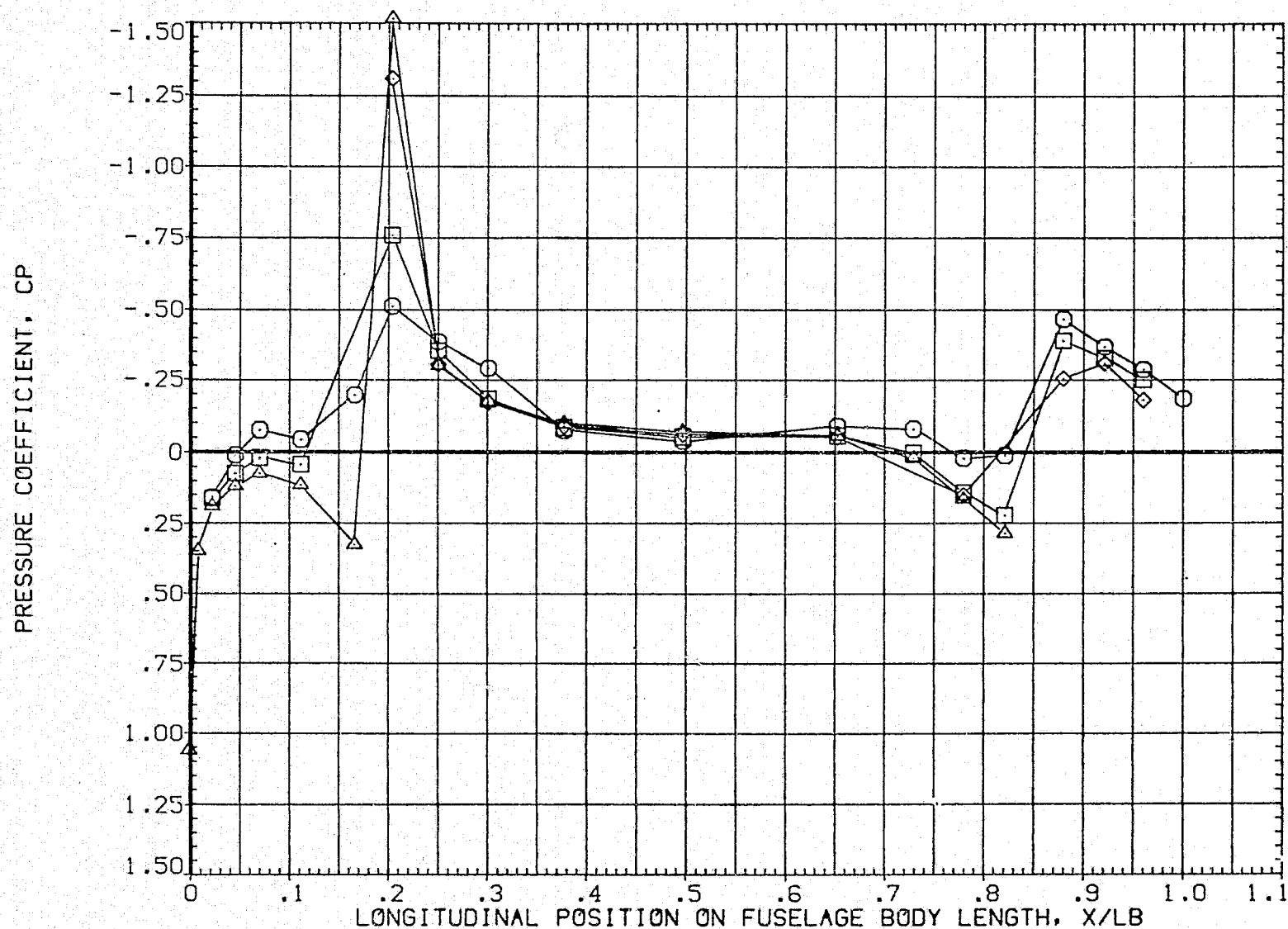


FIG. 52 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

SYMBOL	PHI	BETA0	ALPHA0
○	.000	-4.000	-4.000
□	40.000		
◇	70.000		
△	90.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

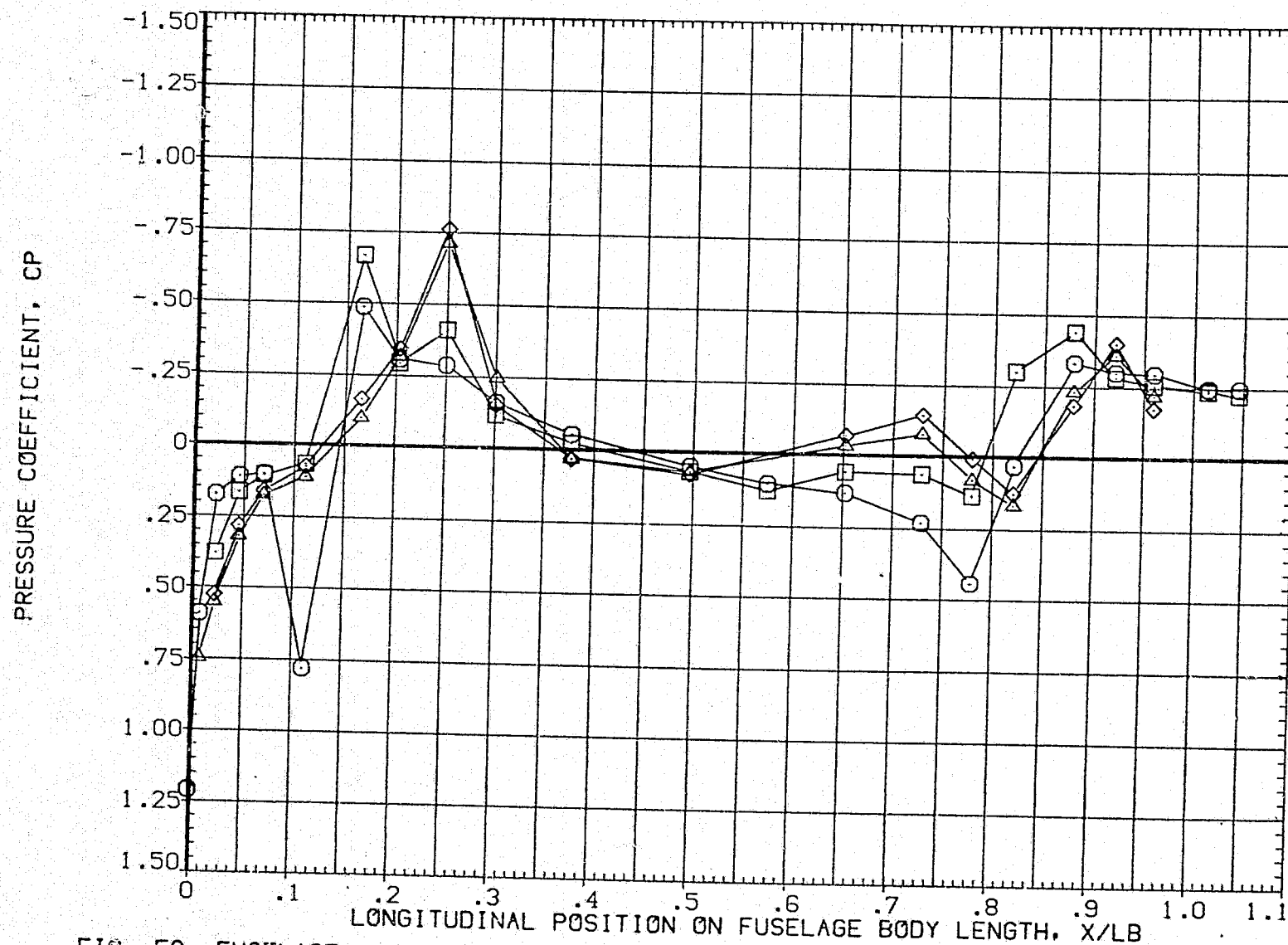


FIG. 53 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

ARC11-019 IA81 LVAP(ELHL UNSEALD) ORB. FUSELAGE (IETB07)

SYMBOL	PHI	BETA0	ALPHA0
○	120.000	-4.000	-4.000
□	150.000		
◇	165.000		
△	180.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

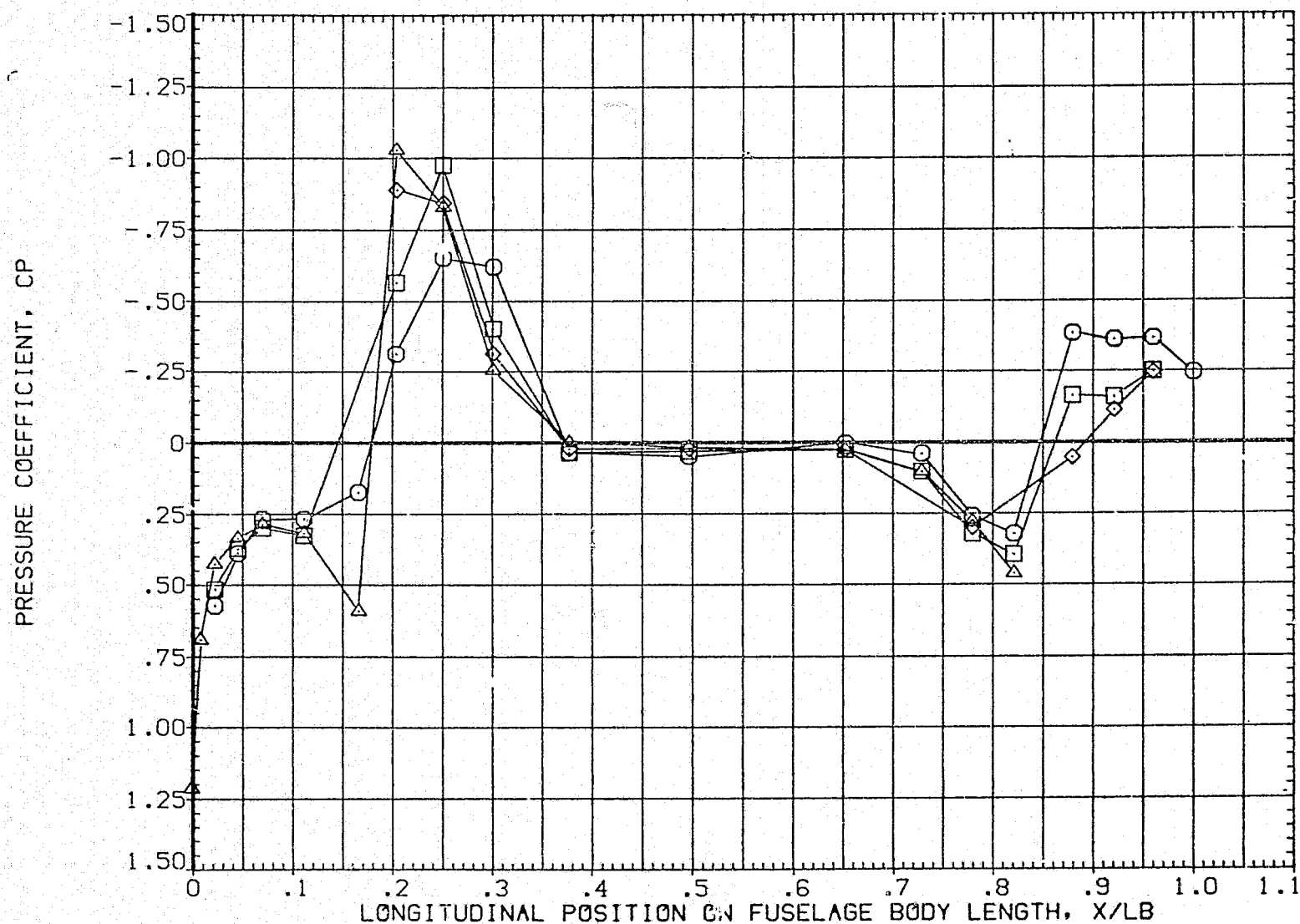


FIG. 53 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

SYMBOL	PHI	BETA0	ALPHA0
○	.000	.000	-4.000
□	40.000		
◇	70.000		
△	90.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

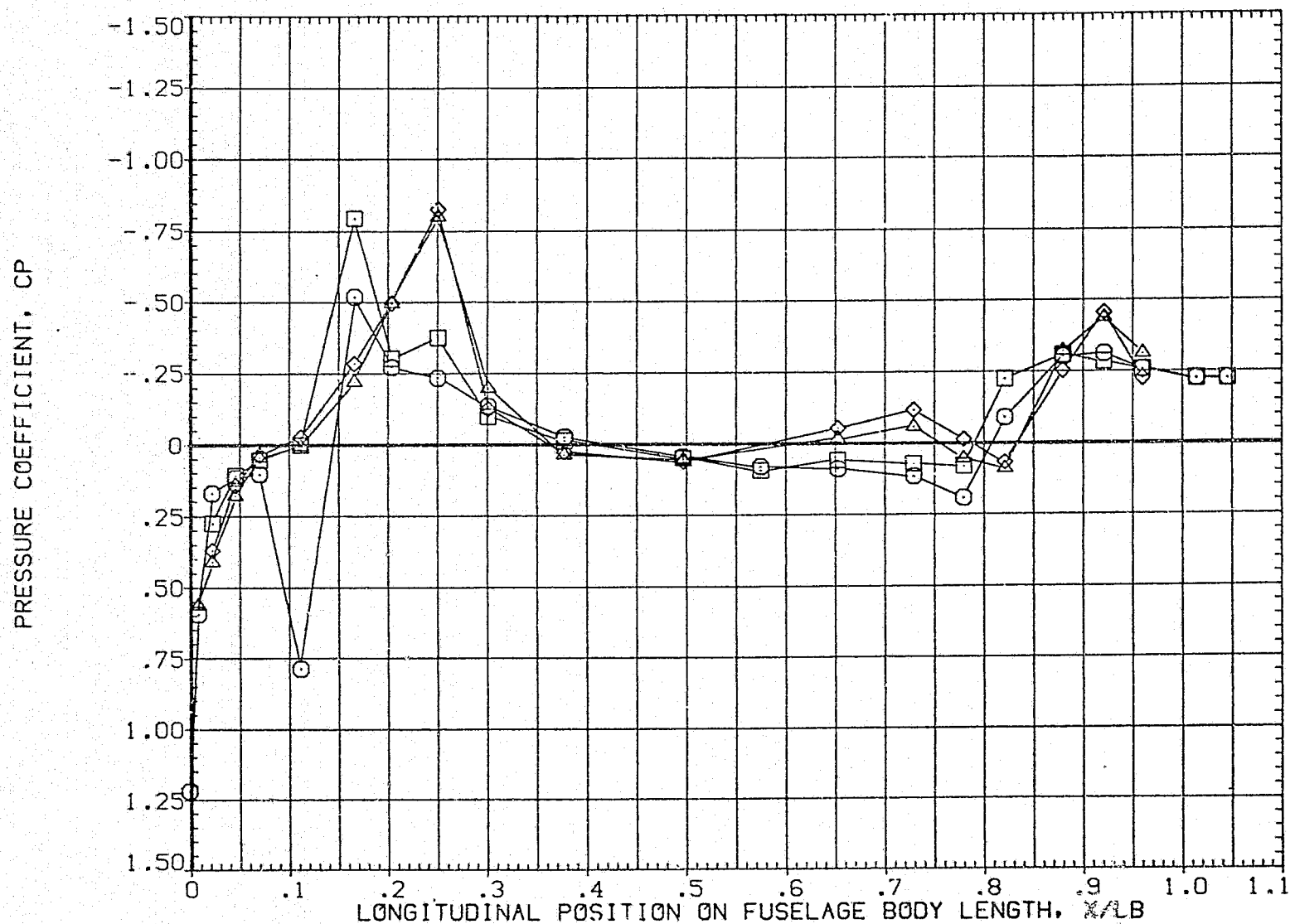


FIG. 53 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

ARC11-019 1A81 LVAP(ELHL UNSEALD) CRB. FUSELAGE (IETB07)

SYMBOL	PHI	BETA0	ALPHA0
○	120.000	.000	-4.000
□	150.000		
◇	165.000		
△	180.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDER	.000	SPDBRK	.000

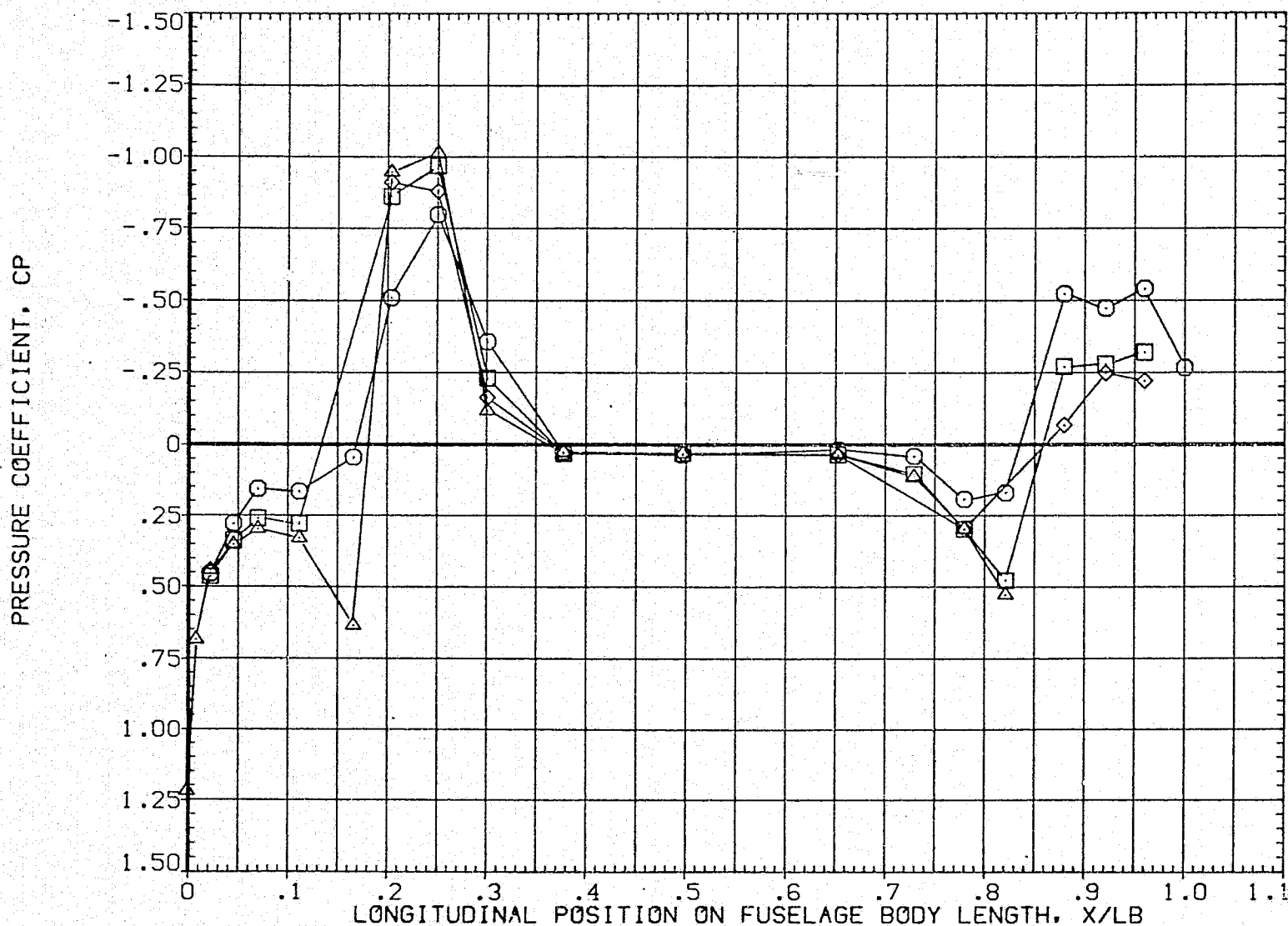


FIG. 53 FUSELAGE LONG. PRESSURE DIST. ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 0.9

SYMBOL	PHI	BETA	ALPHA
○	.000	4.000	-4.000
□	40.000		
◇	70.000		
△	90.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUCDER	.000	SPDBRK	.000

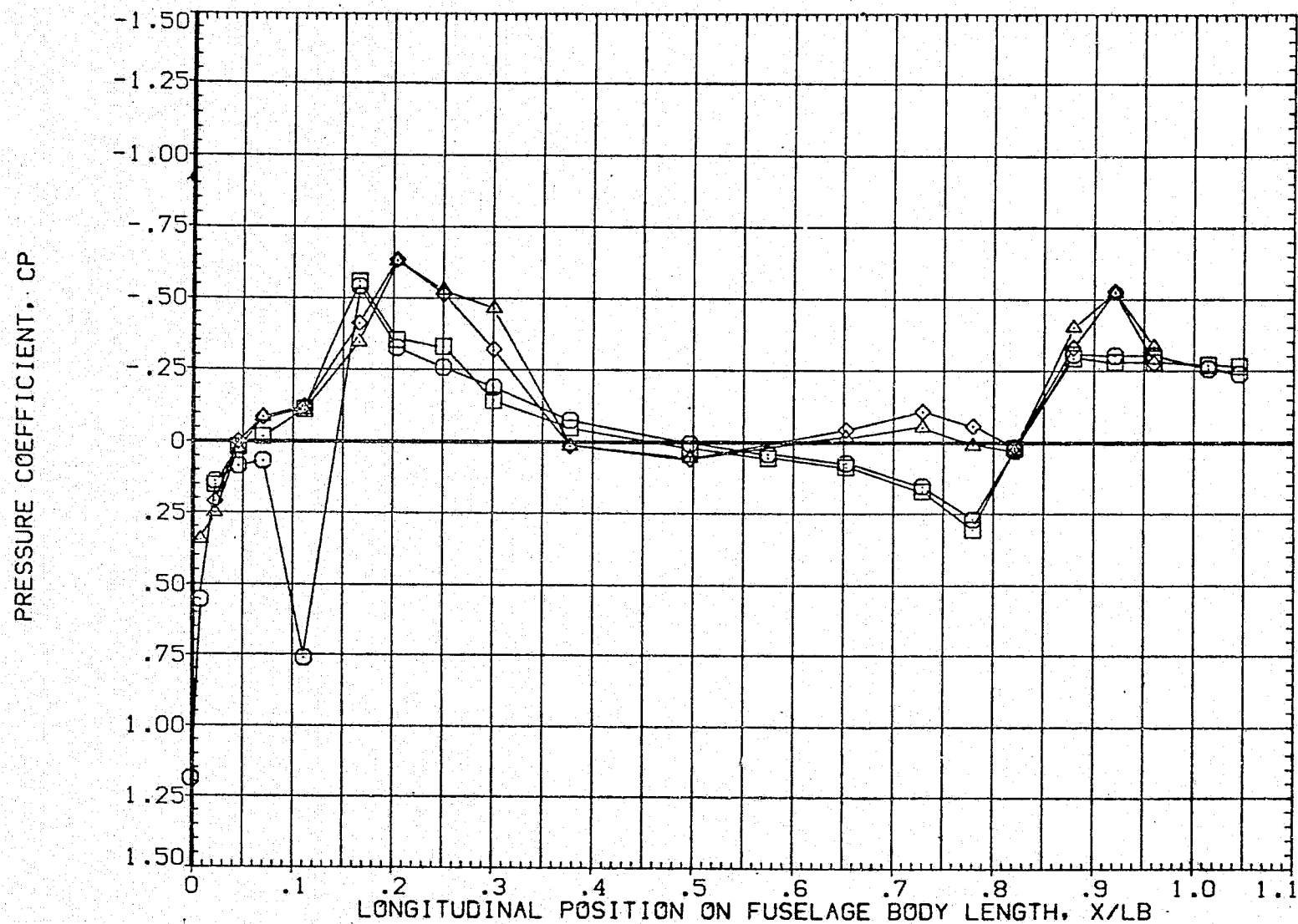


FIG. 53 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

ARC11-019 1A81 LVAP(ELHL UNSEALD) ORB. FUSELAGE (IETB07)

SYMBOL	PHI	BETA0	ALPHA0
○	120.000	4.000	-4.000
□	150.000		
◇	165.000		
△	180.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

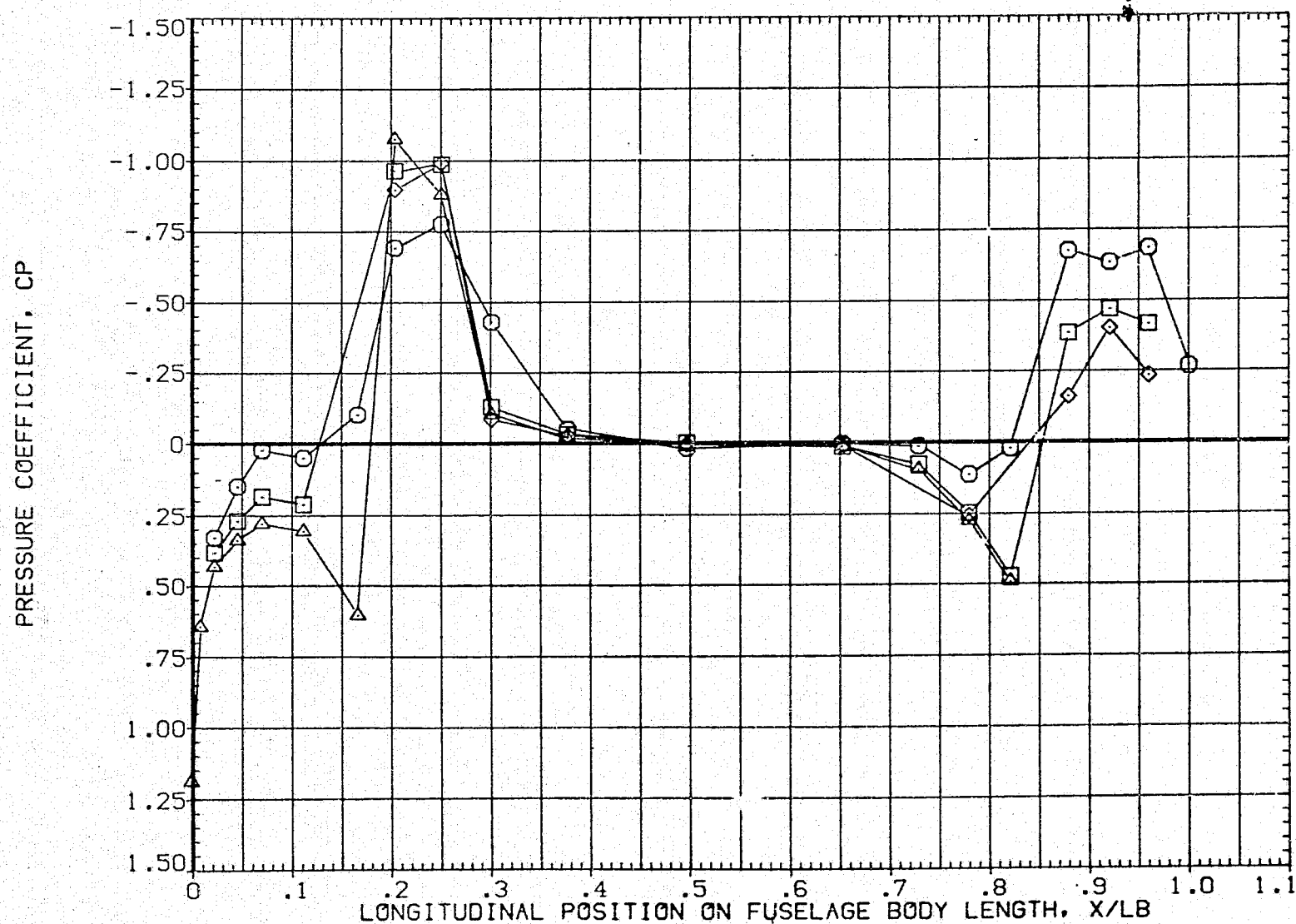


FIG. 53 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

ARC11-019 IA81 LVAP(ELHL UNSEALD) ORB. FUSELAGE (IETB07)

SYMBOL	PHI	BETA0	ALPHA0
○	.000	-4.000	.000
□	40.000		
◇	70.000		
△	90.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

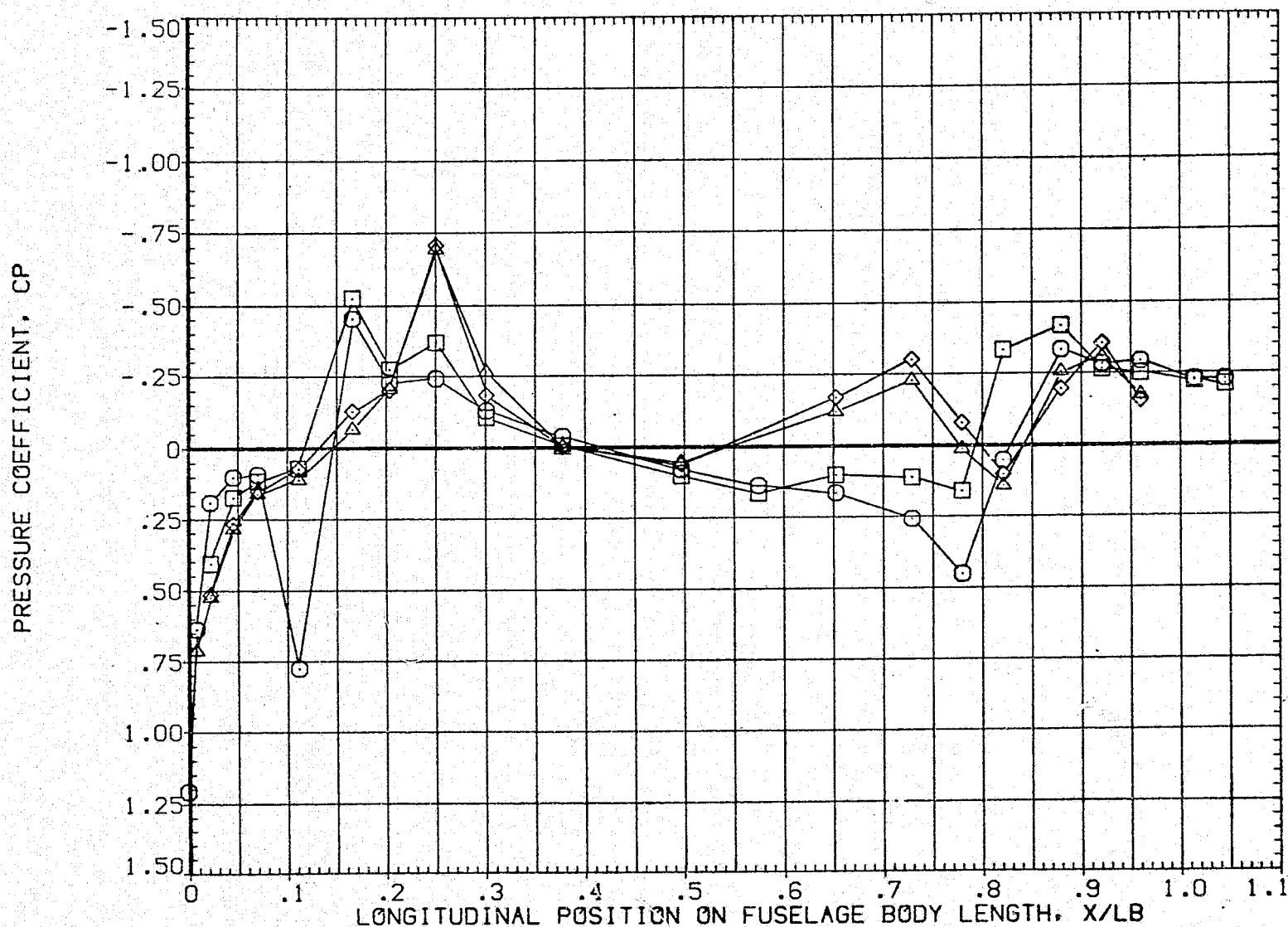


FIG. 53 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

ARC11-019 IA81 LVAP(ELHL UNSEALD) ORB. FUSELAGE (IETB07)

SYMBOL	PHI	BETA0	ALPHA0
○	120.000	-4.000	.000
□	150.000		
◇	165.000		
△	180.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

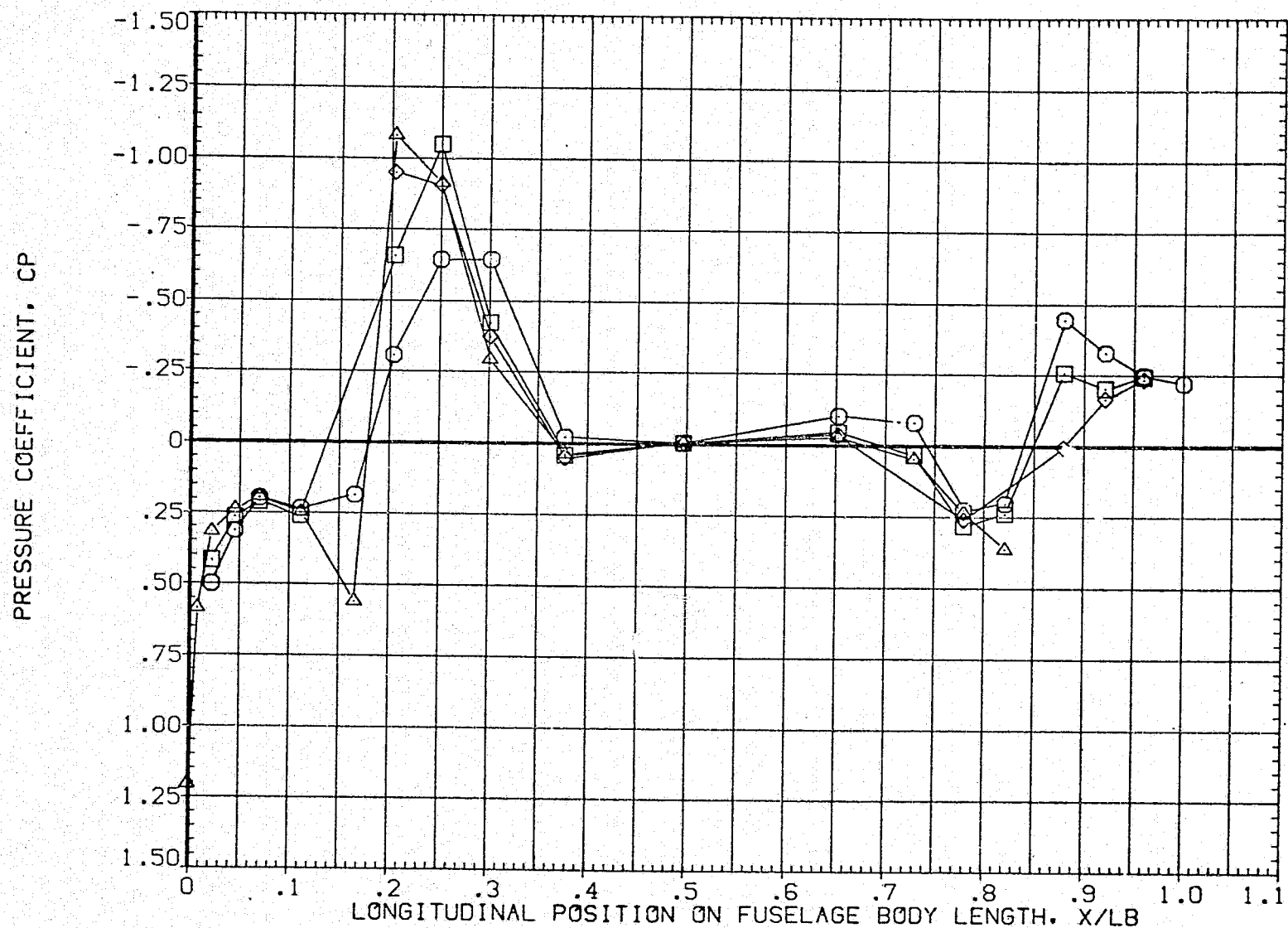


FIG. 53 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

SYMBOL	PHI	BETA0	ALPHA0
○	.000	.000	.000
□	40.000		
◇	70.000		
△	90.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

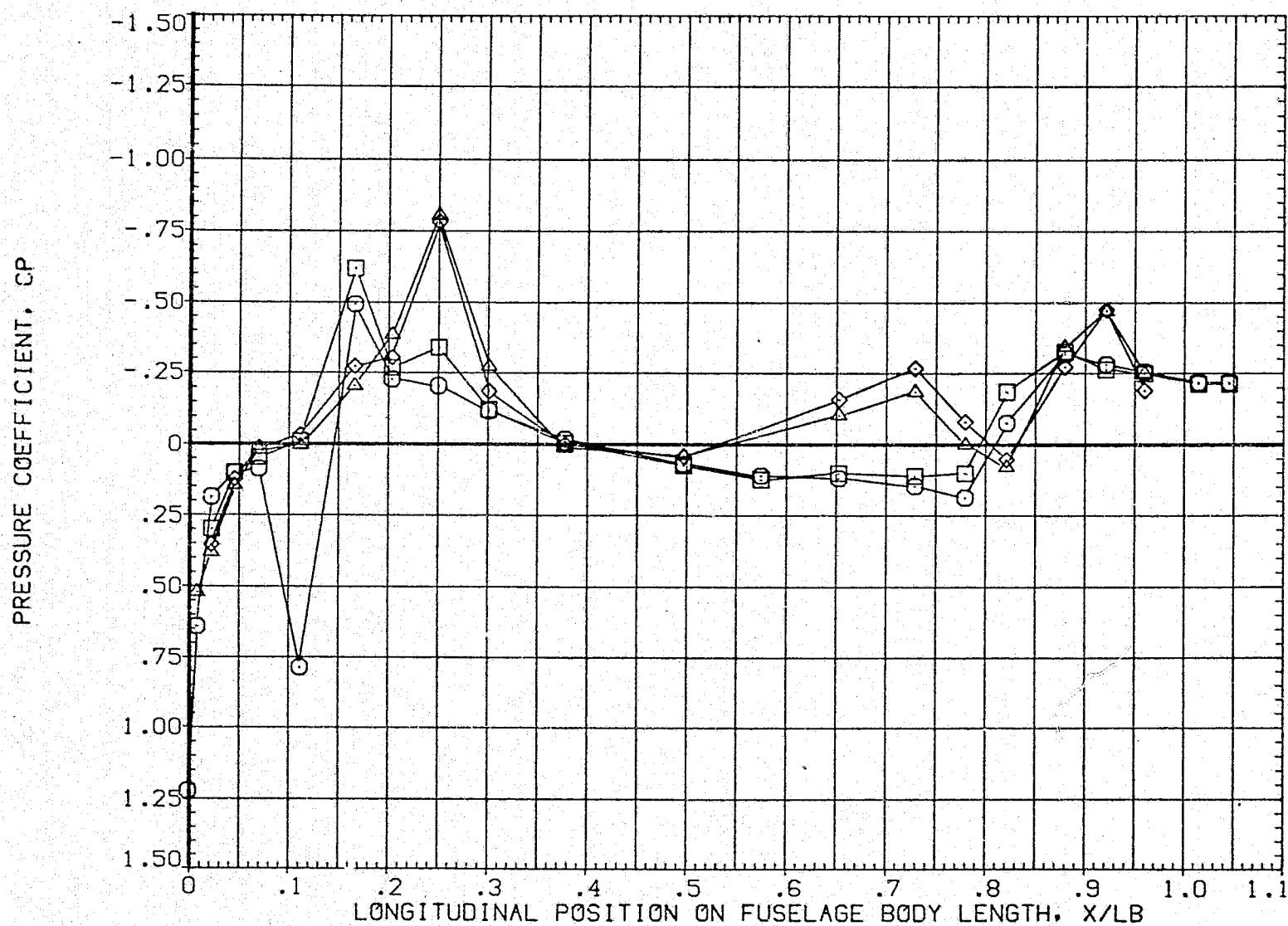


FIG. 53 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

ARC11-019 IA81 LVAP(ELHL UNSEALD) ORB. FUSELAGE (IETB07)

SYMBOL	PHI	BETA0	ALPHA0
○	120.000	.000	.000
□	150.000		
◇	165.000		
△	180.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

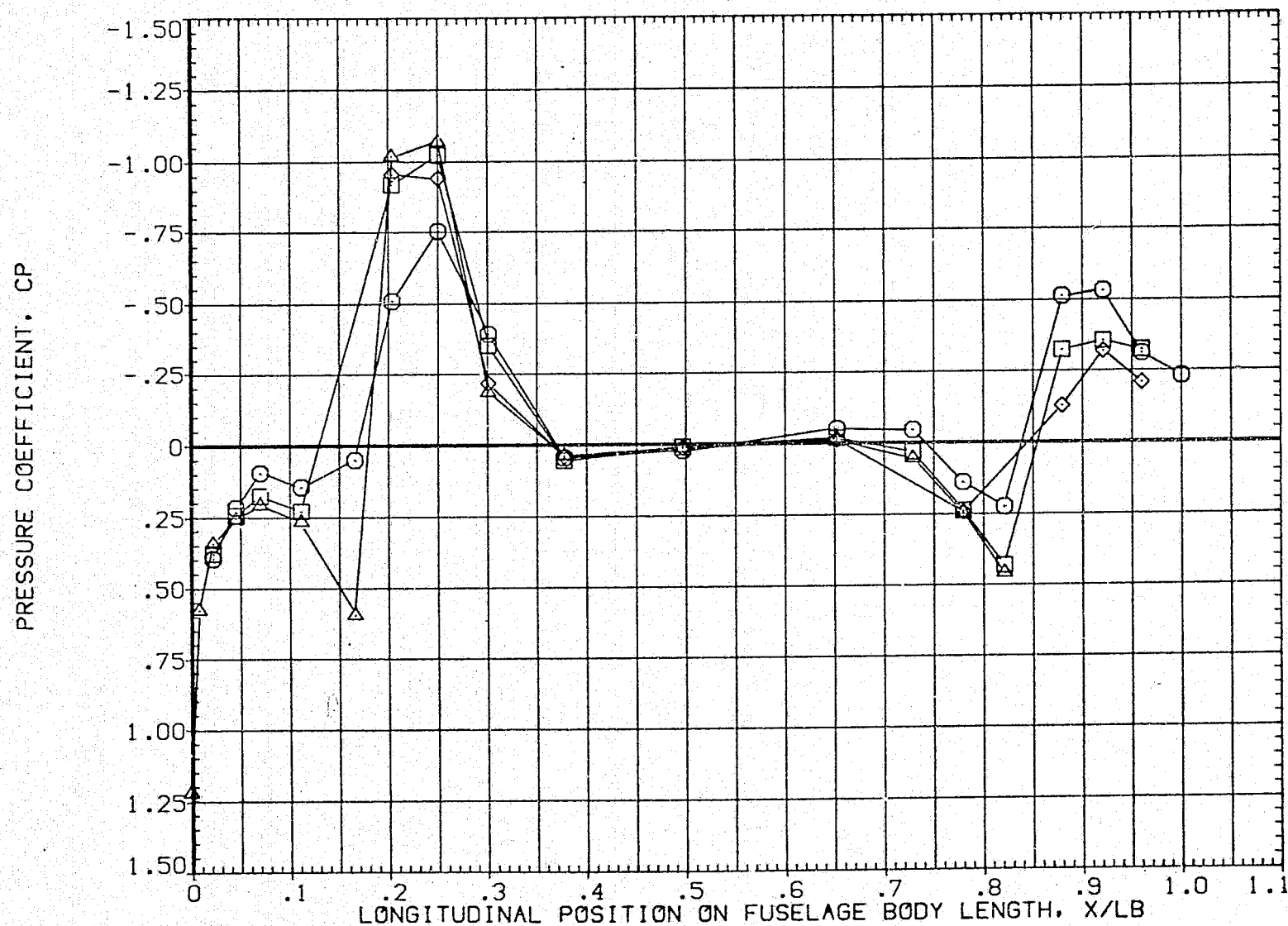


FIG. 53 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

SYMBOL	PHI	BETA0	ALPHA0
○	.000	4.000	.000
□	40.000		
◇	70.000		
△	90.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-1B	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

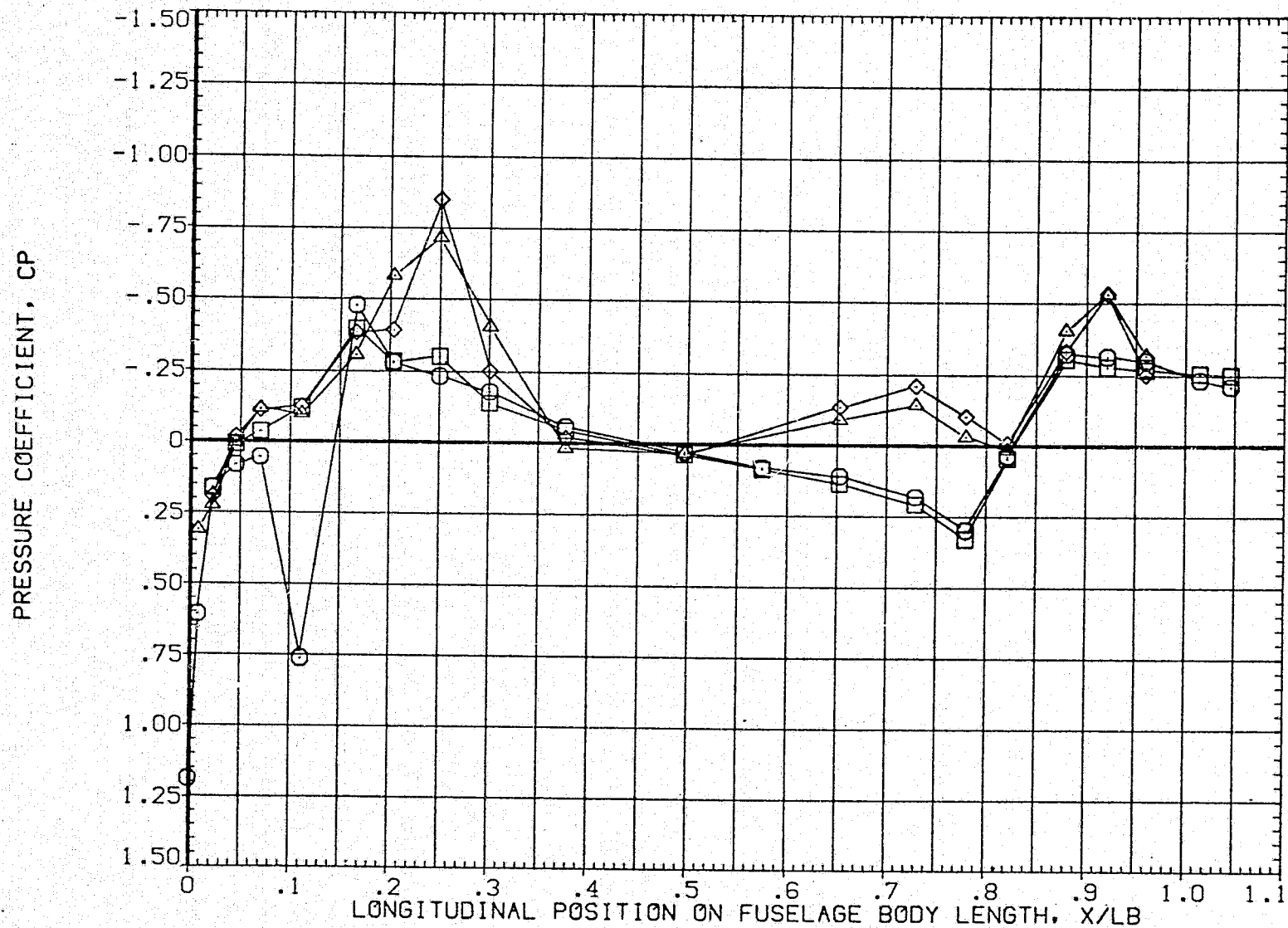


FIG. 53 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

ARC11-019 IA81 LVAP(ELHL UNSEALD) ORB. FUSELAGE (IETB07)

SYMBOL	PHI	BETA0	ALPHA0
○	120.000	4.000	.000
□	150.000		
◇	165.000		
△	180.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

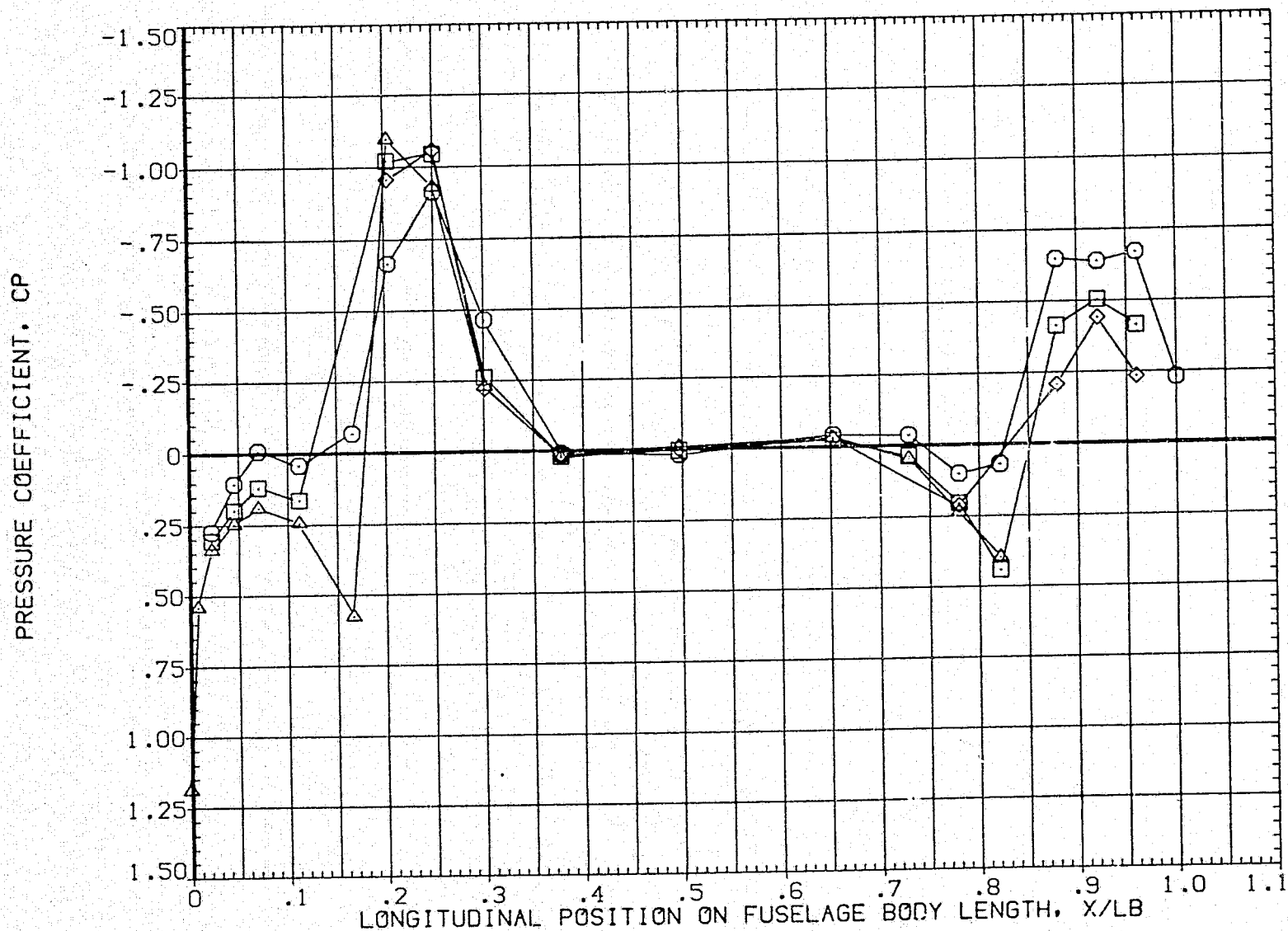


FIG. 53 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

ARC11-019 IA81 LVAP(ELHL UNSEALD) ORB. FUSELAGE (IETB07)

SYMBOL	PHI	BETA0	ALPHA0
○	.000	4.000	4.000
□	40.000		
◇	70.000		
△	90.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

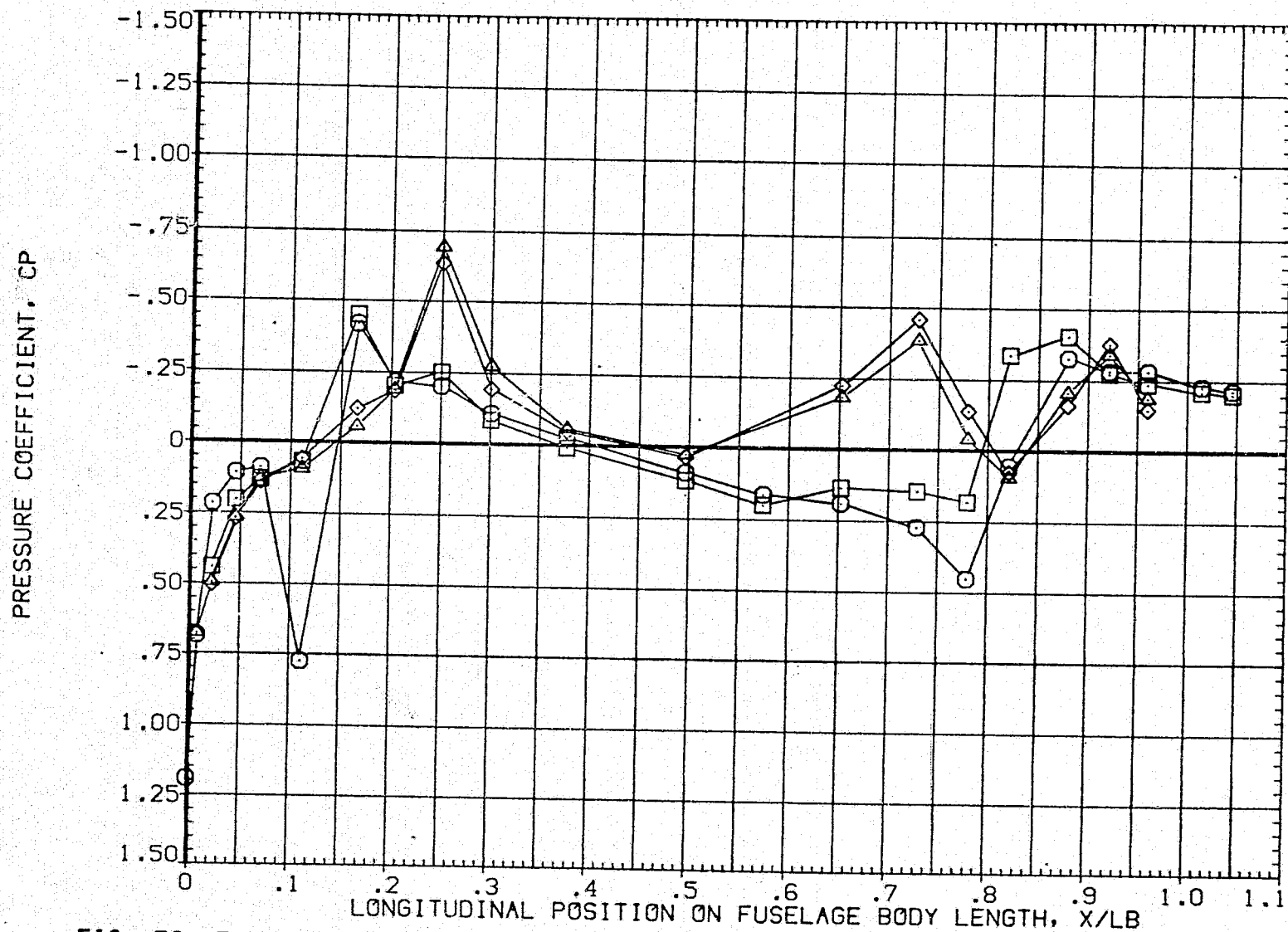


FIG. 53 FUSELAGE LONG. PRESSURE DIST. ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 0.9

ARC11-019 IA81 LVAP(ELHL UNSEALD) ORB. FUSELAGE (IETB07)

SYMBOL	PHI	BETA0	ALPHA0
○	120.000	-4.000	4.000
□	150.000		
◇	165.000		
△	180.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

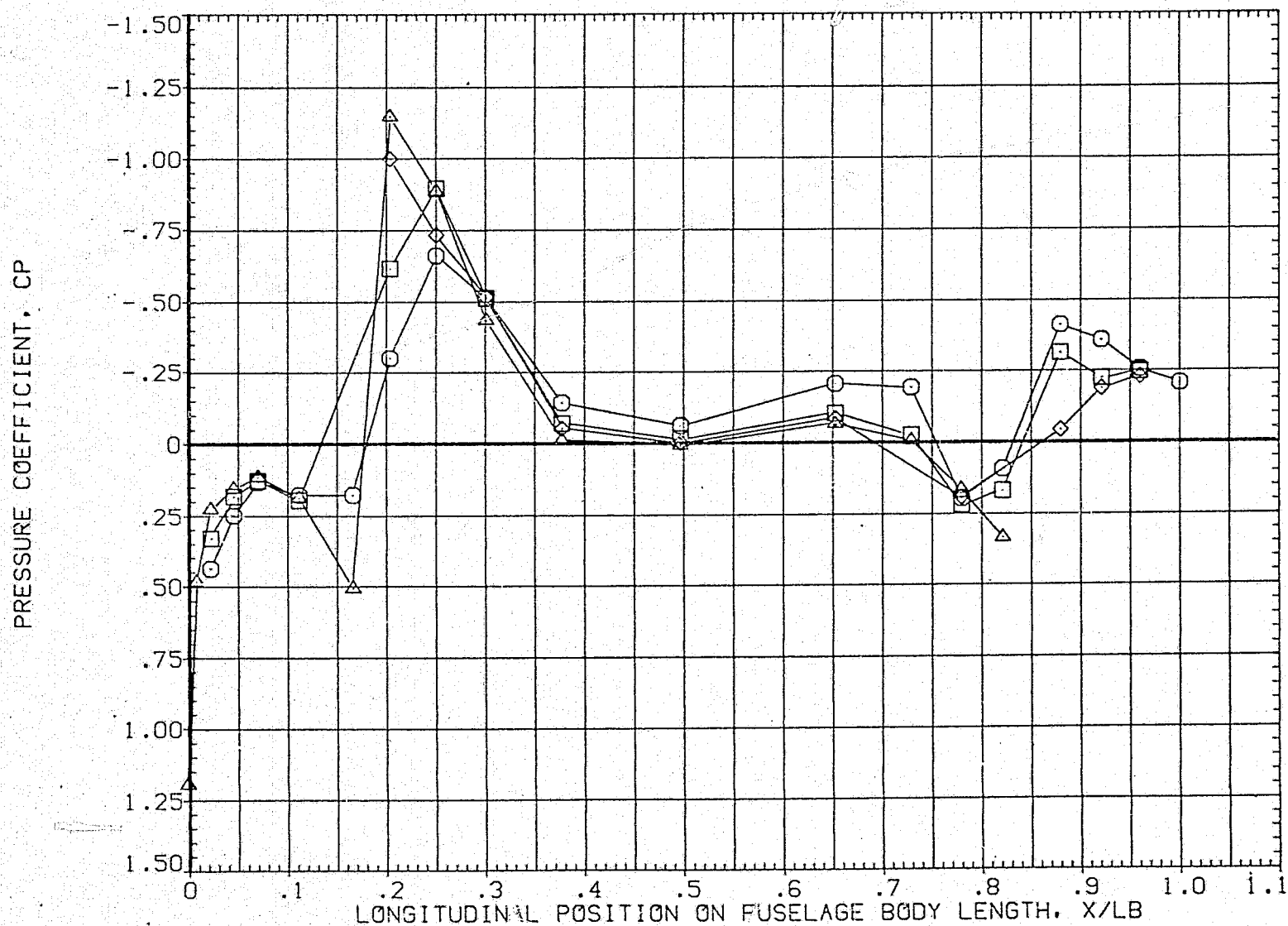


FIG. 53 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

SYMBOL	PHI	BETA0	ALPHA0
○	.000	.000	4.000
□	40.000		
◇	70.000		
△	90.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPOBRK	.000

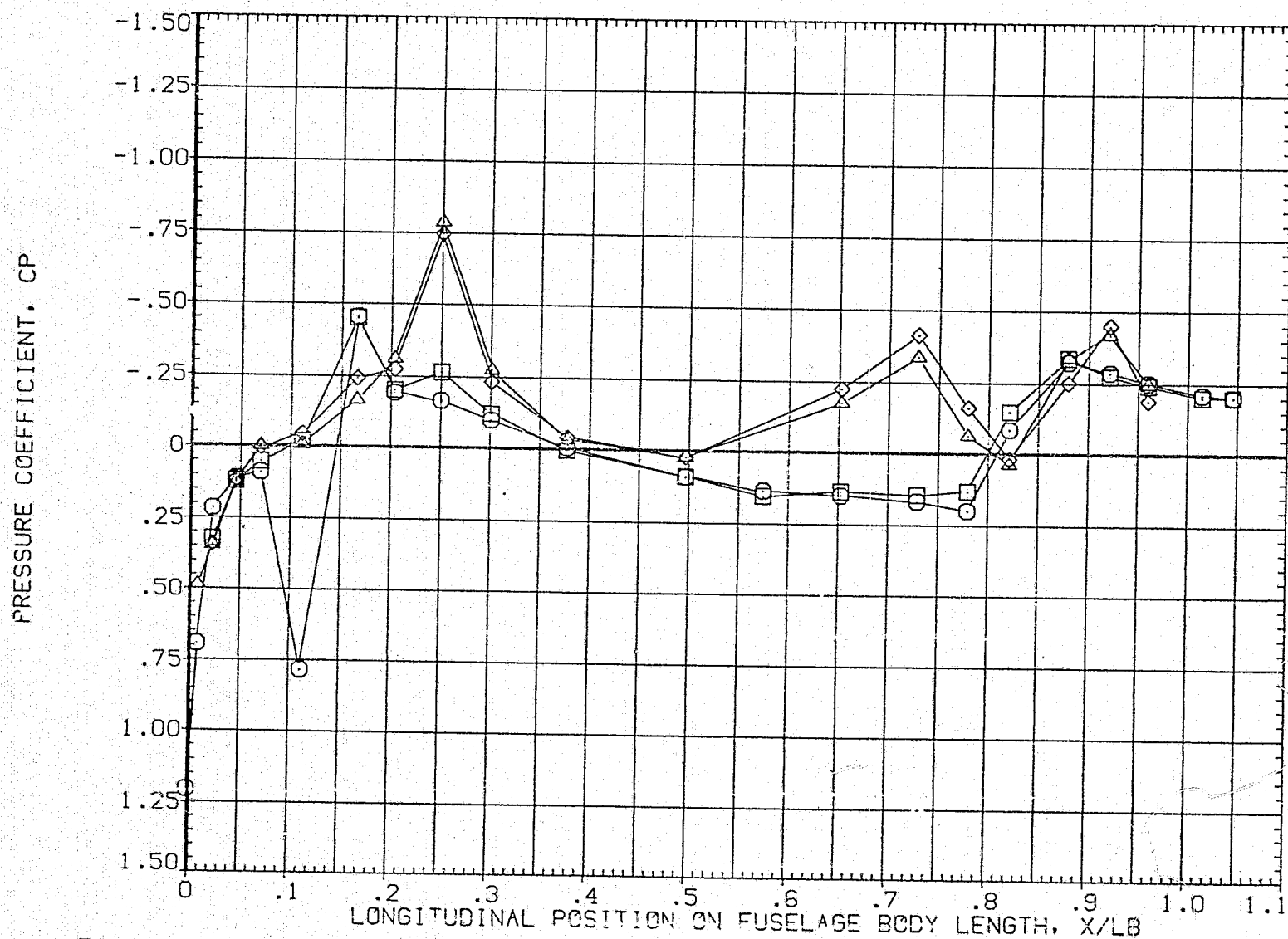


FIG. 53 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

ARC11-019 IA81 LVAP(ELHL UNSEALD) ORB. FUSELAGE (IETB07)

SYMBOL	PHI	BETA0	ALPHA0
○	120.000	.000	4.000
□	150.000		
◇	165.000		
△	180.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

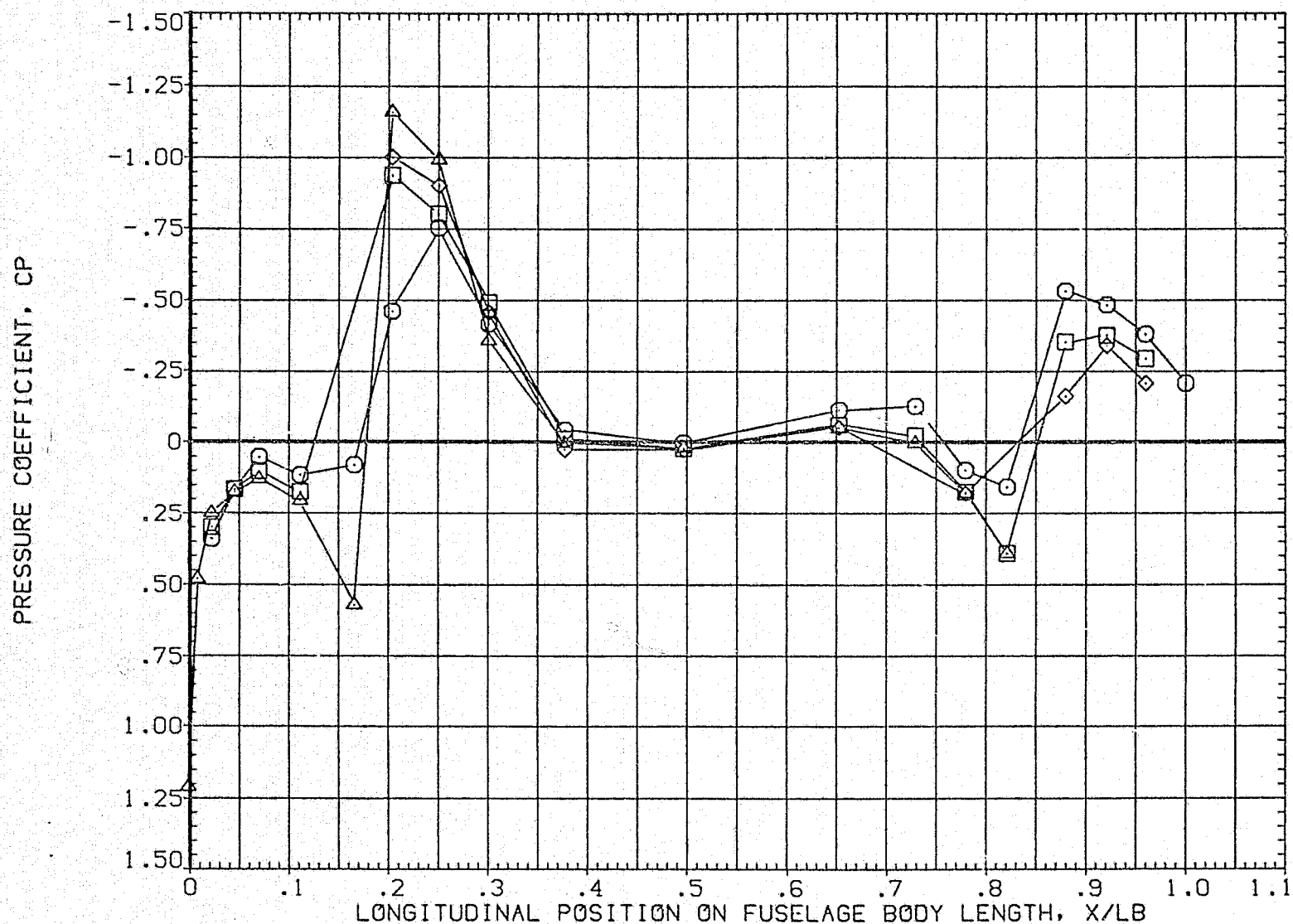


FIG. 53 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

SYMBOL	PHI	BETA0	ALPHA0
○	.000	4.000	4.000
□	40.000		
◇	70.000		
△	90.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

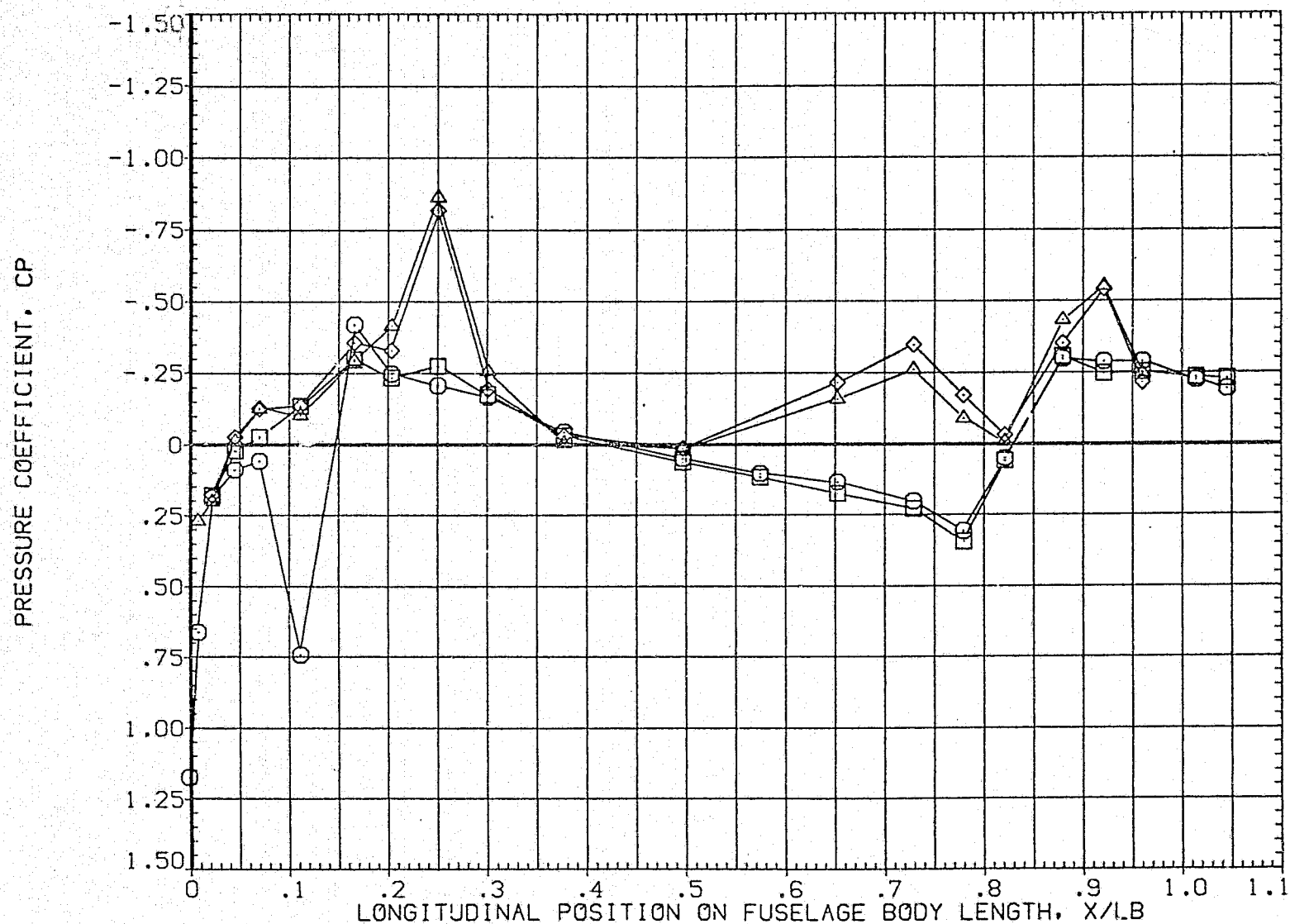


FIG. 53 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

ARC11-019 IA81 LVAP(ELHL UNSEALD) ORB. FUSELAGE (IETB07)

SYMBOL	PHI	BETA0	ALPHA0
○	120.000	4.000	4.000
□	150.000		
◇	165.000		
△	180.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-1B	6.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

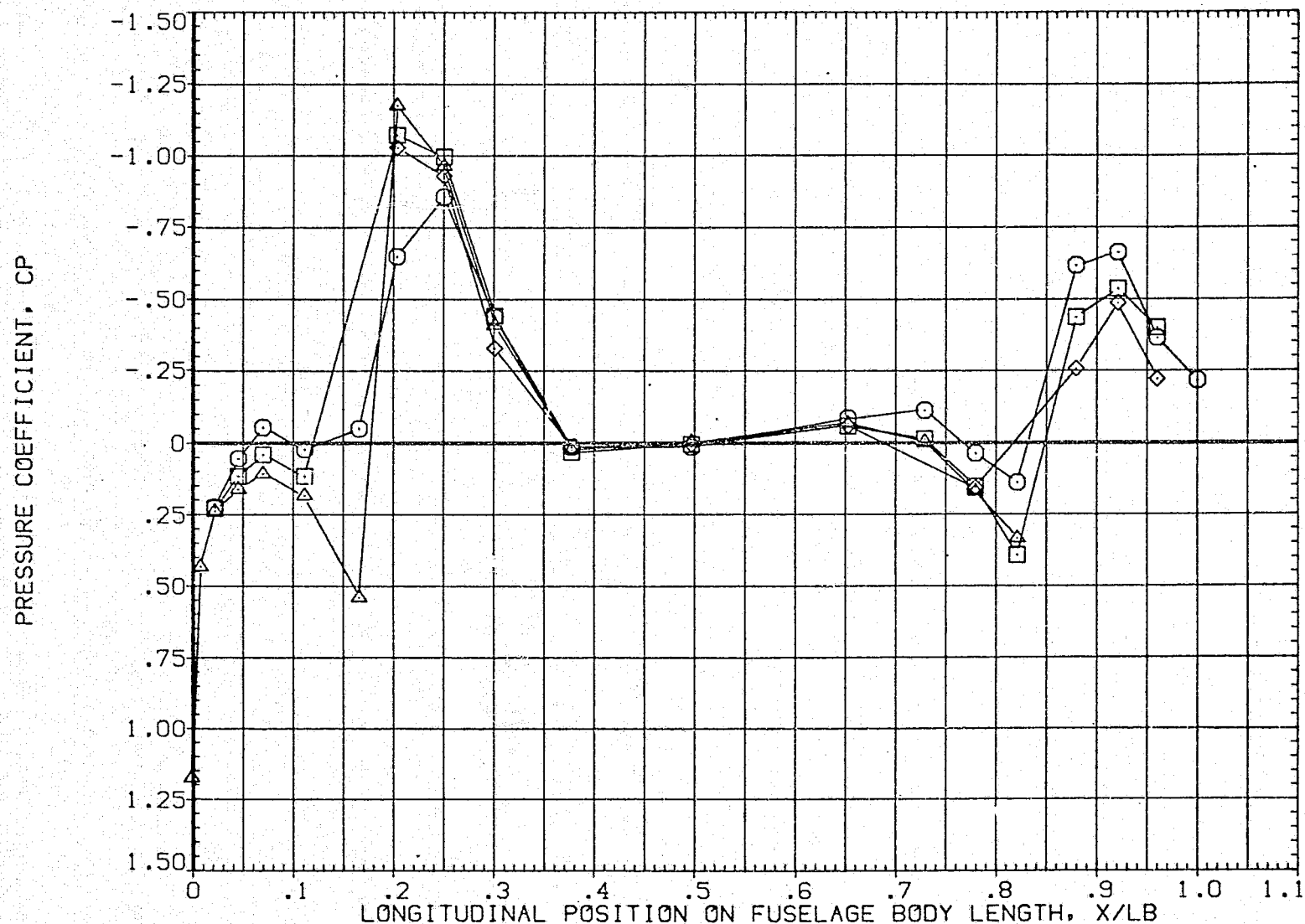


FIG. 53 FUSELAGE LONG. PRESSURE DIST. ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 0.9

ARC11-019 IA81 LVAP(ELHL UNSEALD) ORB. FUSELAGE (IETB09)

SYMBOL	PHI	BETA0	ALPHA0
○	.000	-4.000	-4.000
□	40.000		
◇	70.000		
△	90.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

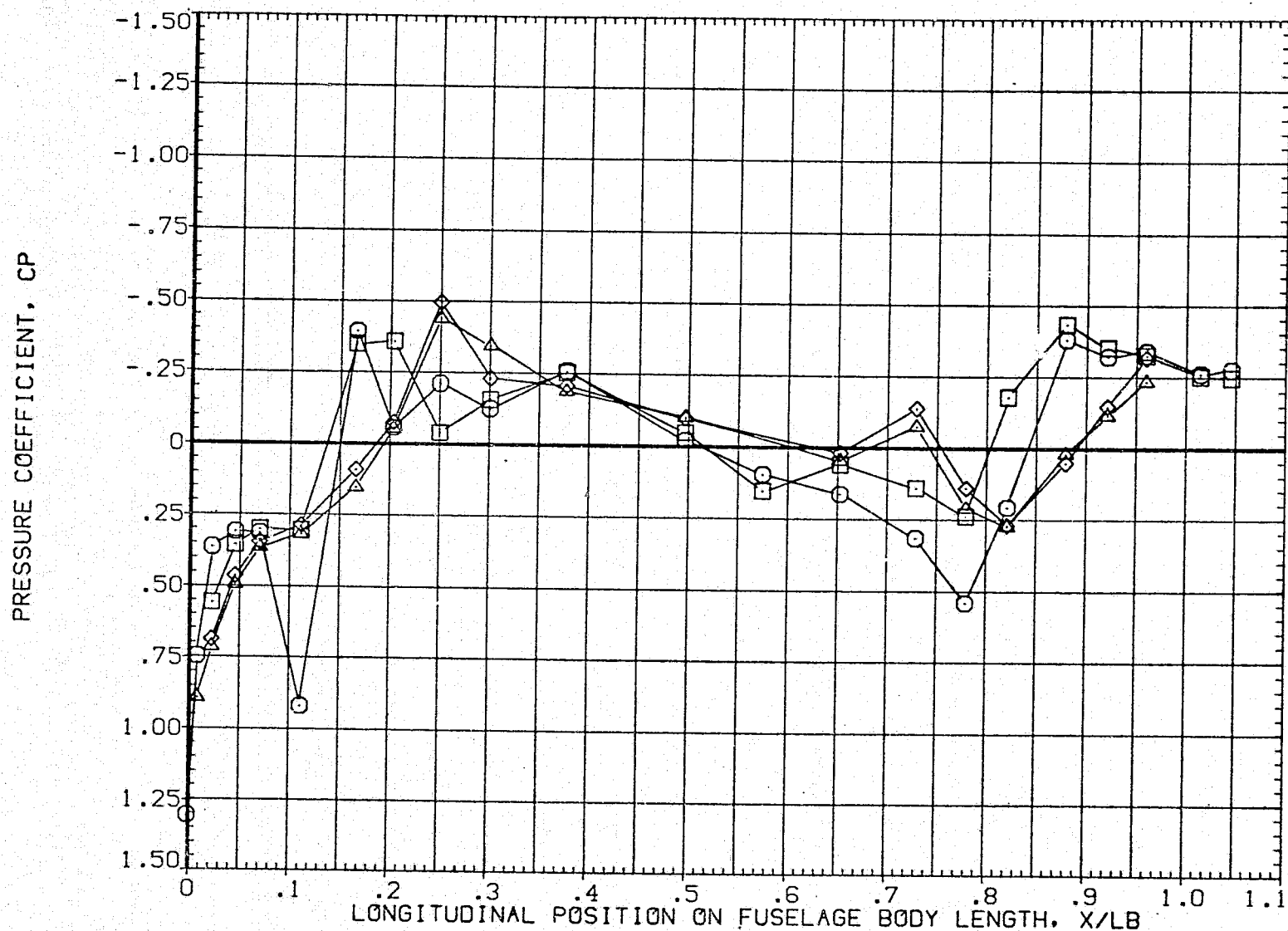


FIG. 54 FUSELAGE LONG. PRESSURE DIST. ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 1.1

ARC11-019 IA81 LVAP(ELHL UNSEALD) ORB. FUSELAGE (IETB09)

SYMBOL	PHI	BETA0	ALPHA0
○	120.000	-4.000	-4.000
□	150.000		
◇	165.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

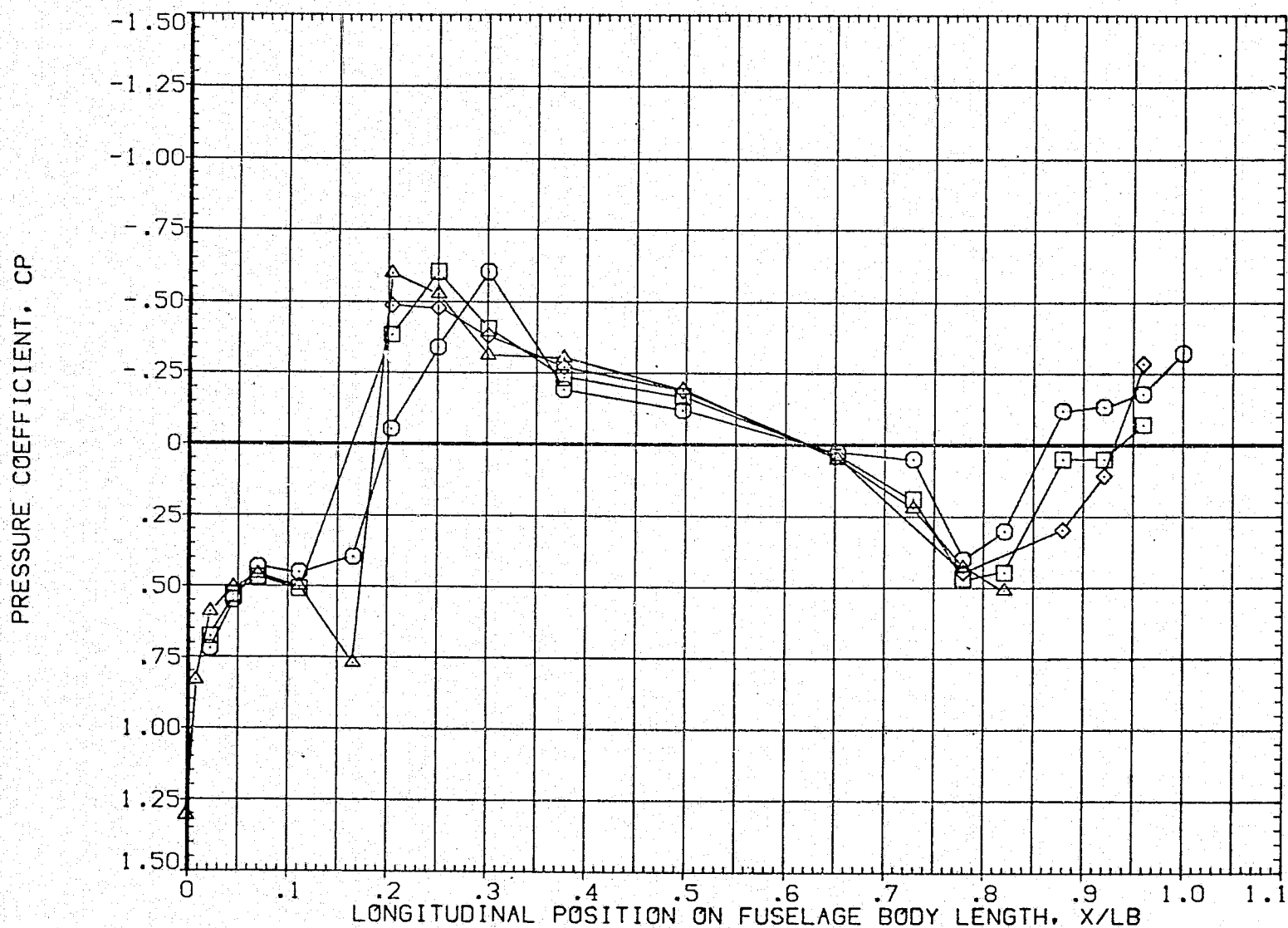


FIG. 54 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

ARC11-019 1A81 LVAP(ELHL UNSEALD) ORB. FUSELAGE (IETB09)

SYMBOL	PHI	BETA0	ALPHA0
○	.000	.000	-4.000
□	40.000		
◇	70.000		
△	90.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

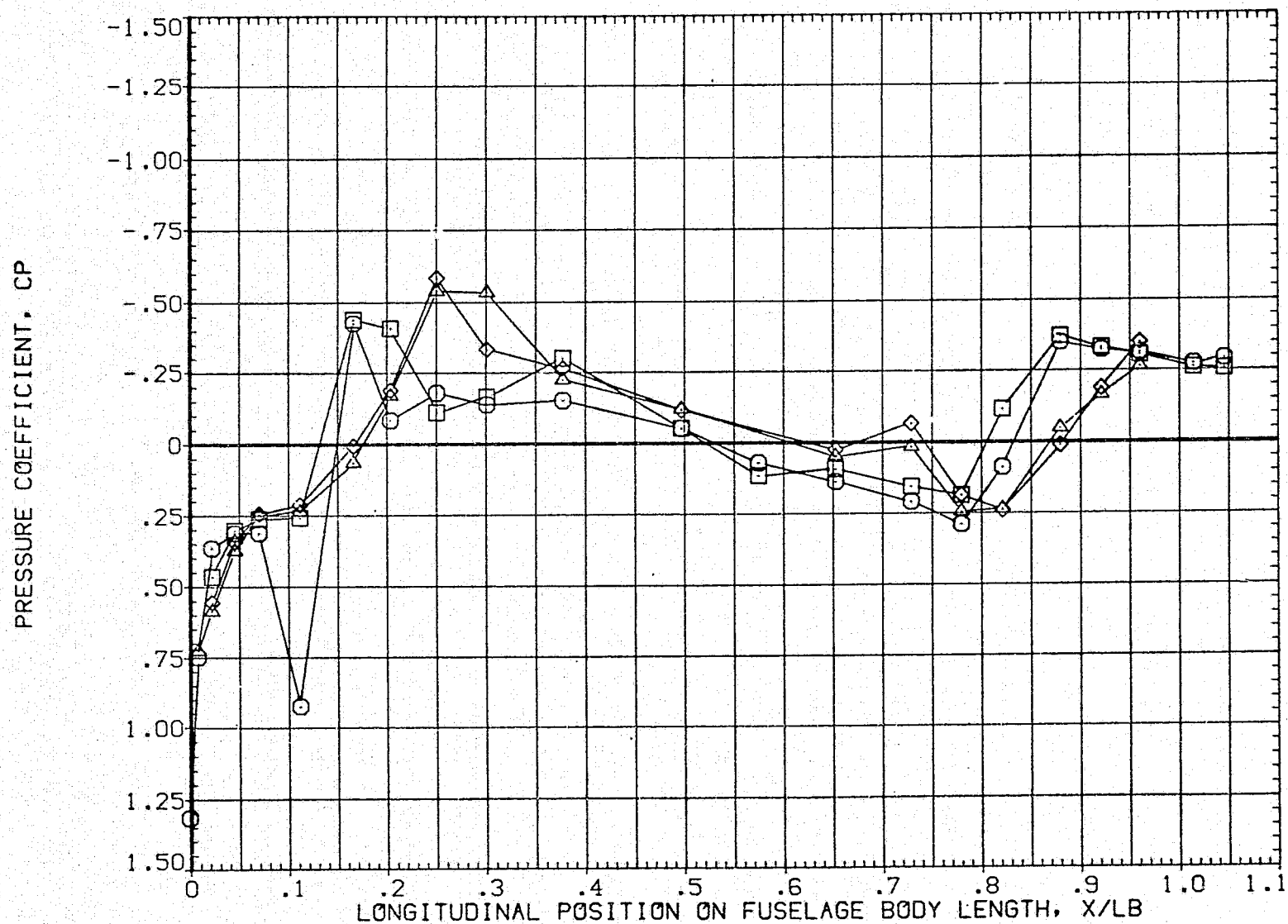


FIG. 54 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

ARC11-019 1A81 LVAP(ELHL UNSEALD) ORB. FUSELAGE (IETB09)

SYMBOL	PHI	BETA0	ALPHA0
○	120.000	.000	-4.000
□	150.000		
◇	165.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

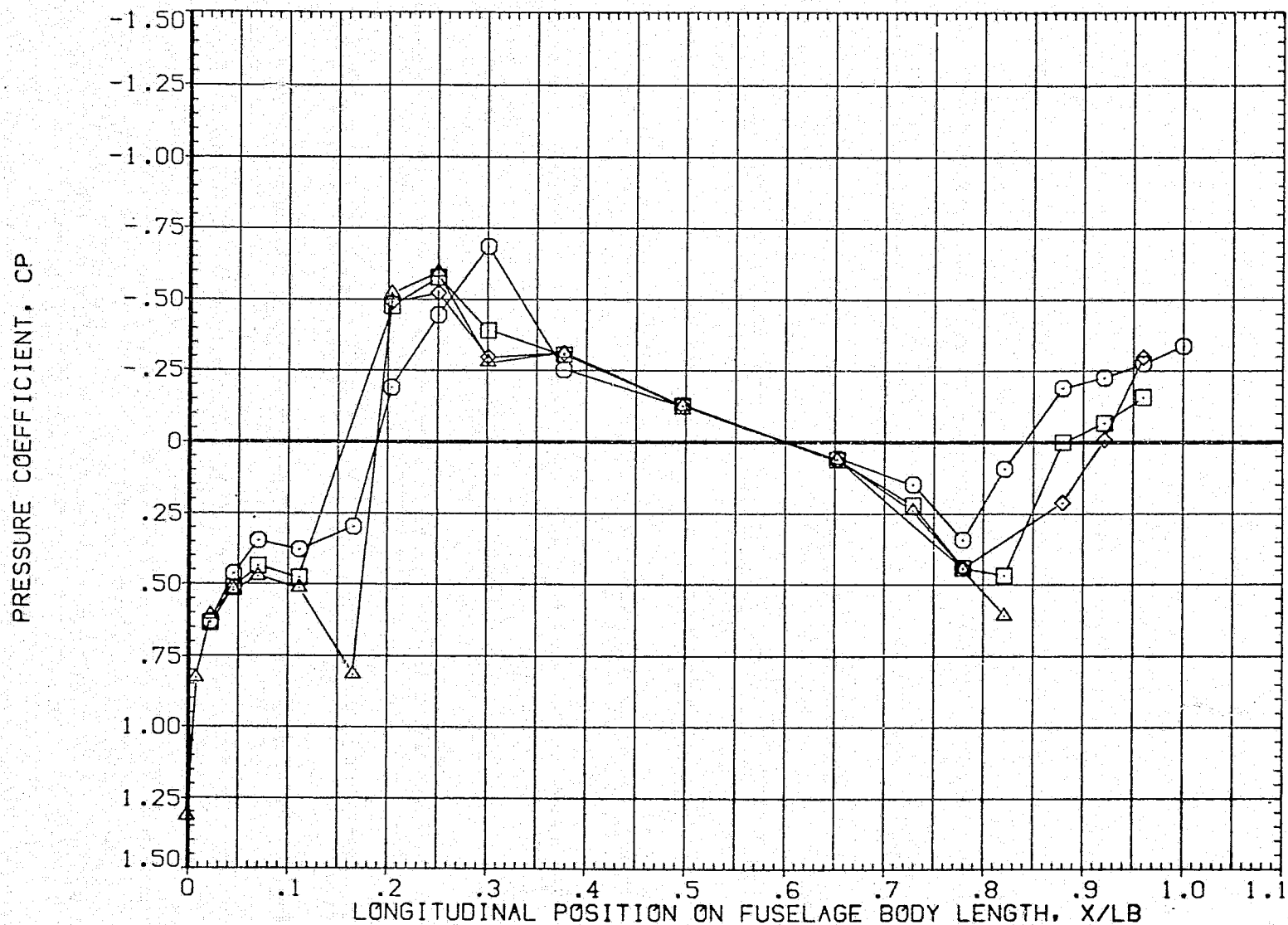


FIG. 54 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

SYMBOL	PHI	BETA0	ALPHA0
○	.000	4.000	-4.000
□	40.000		
◇	70.000		
△	90.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

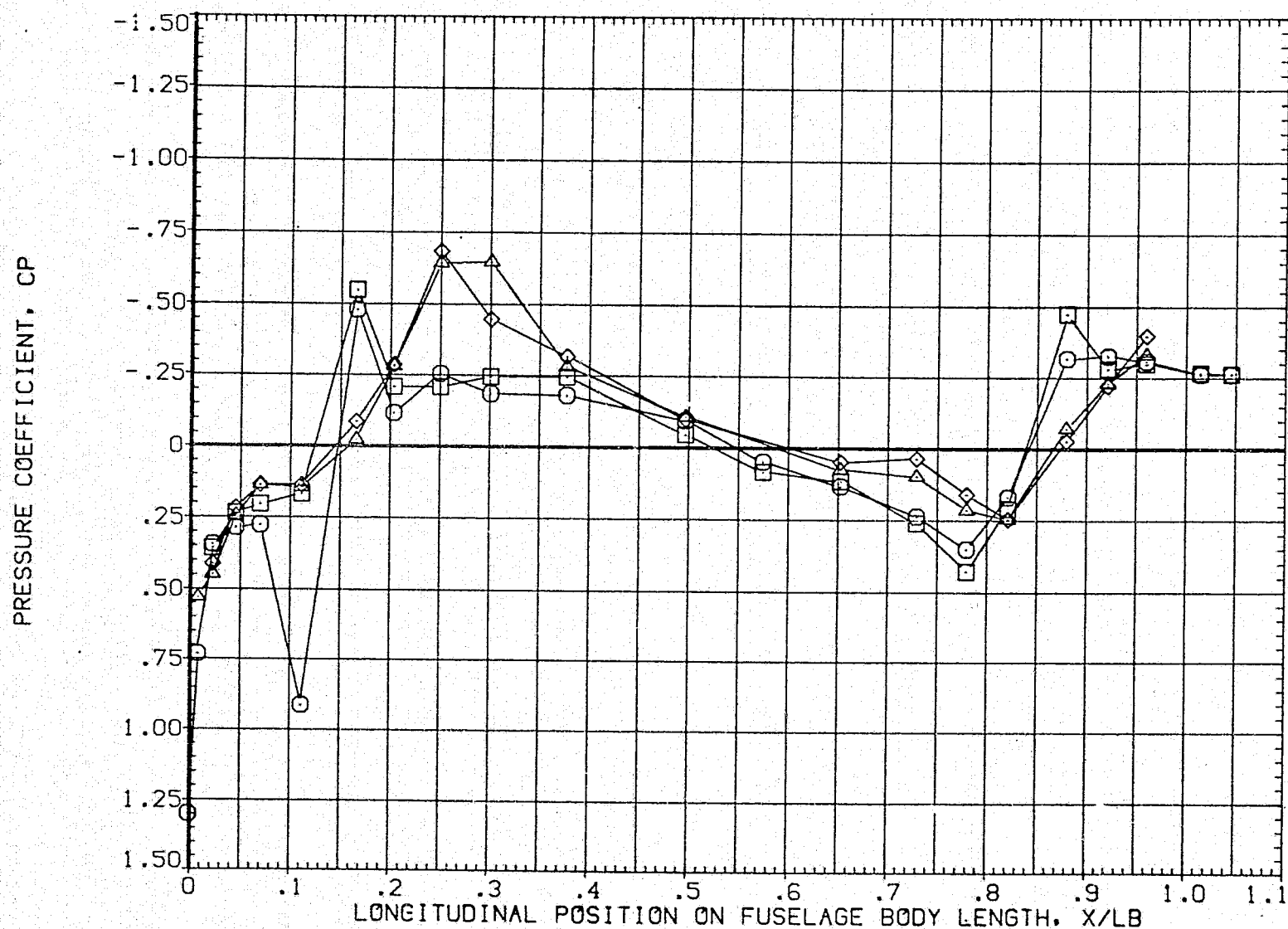


FIG. 54 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

ARC11-019 IA81 LVAP(ELHL UNSEALD) ORB. FUSELAGE (IETB09)

SYMBOL	PHI	BETA0	ALPHA0
○	120.000	4.000	-4.000
□	150.000		
◇	165.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-1B	8.000	ELV-GB	4.000
RUDDER	.000	SPDBRK	.000

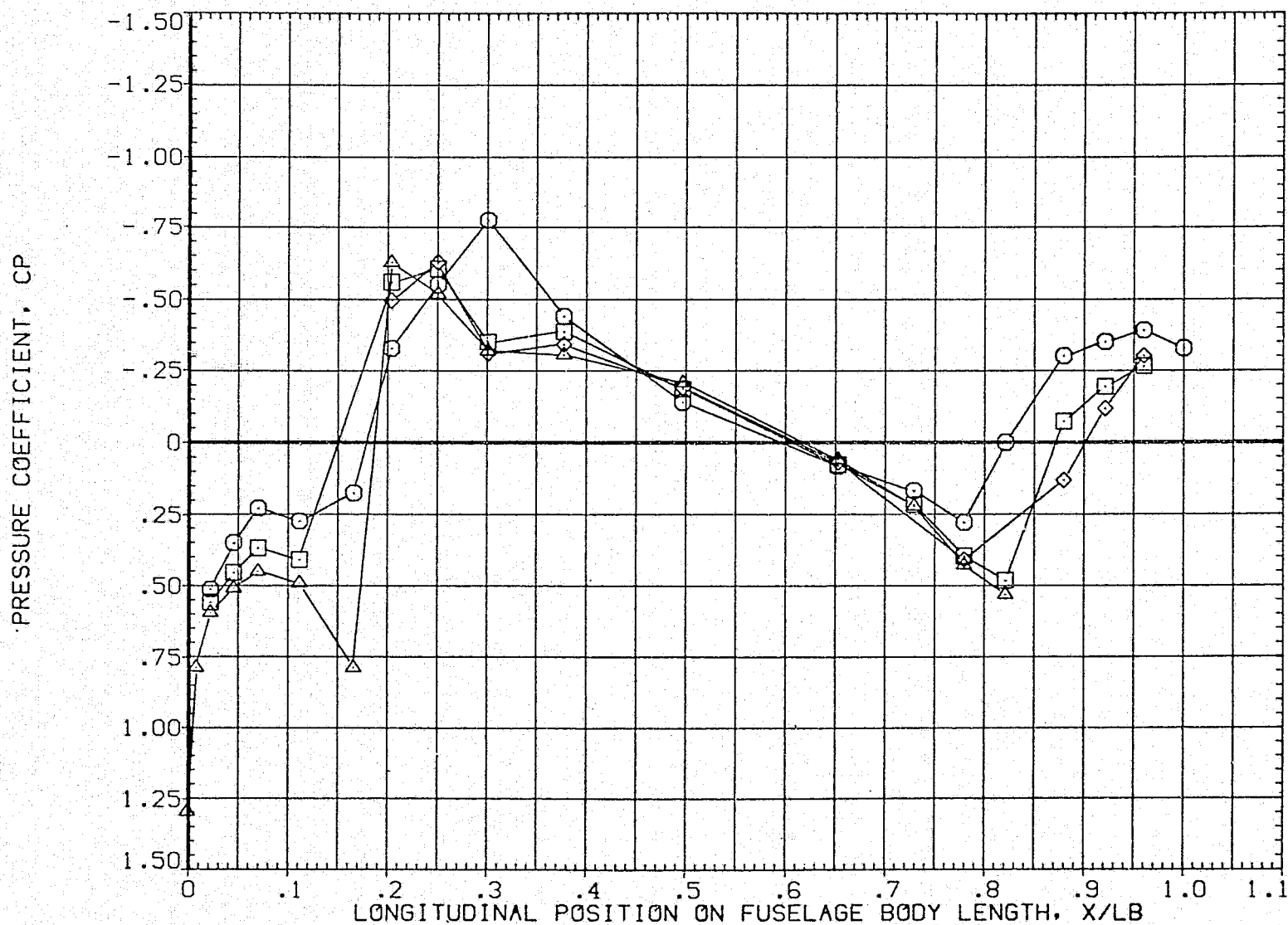


FIG. 54 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

ARC11-019 IA81 LVAP(ELHL UNSEALD) ORB. FUSELAGE (IETB09)

SYMBOL	PHI	BETA0	ALPHA0
○	.000	-4.000	.000
□	40.000		
◇	70.000		
△	90.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

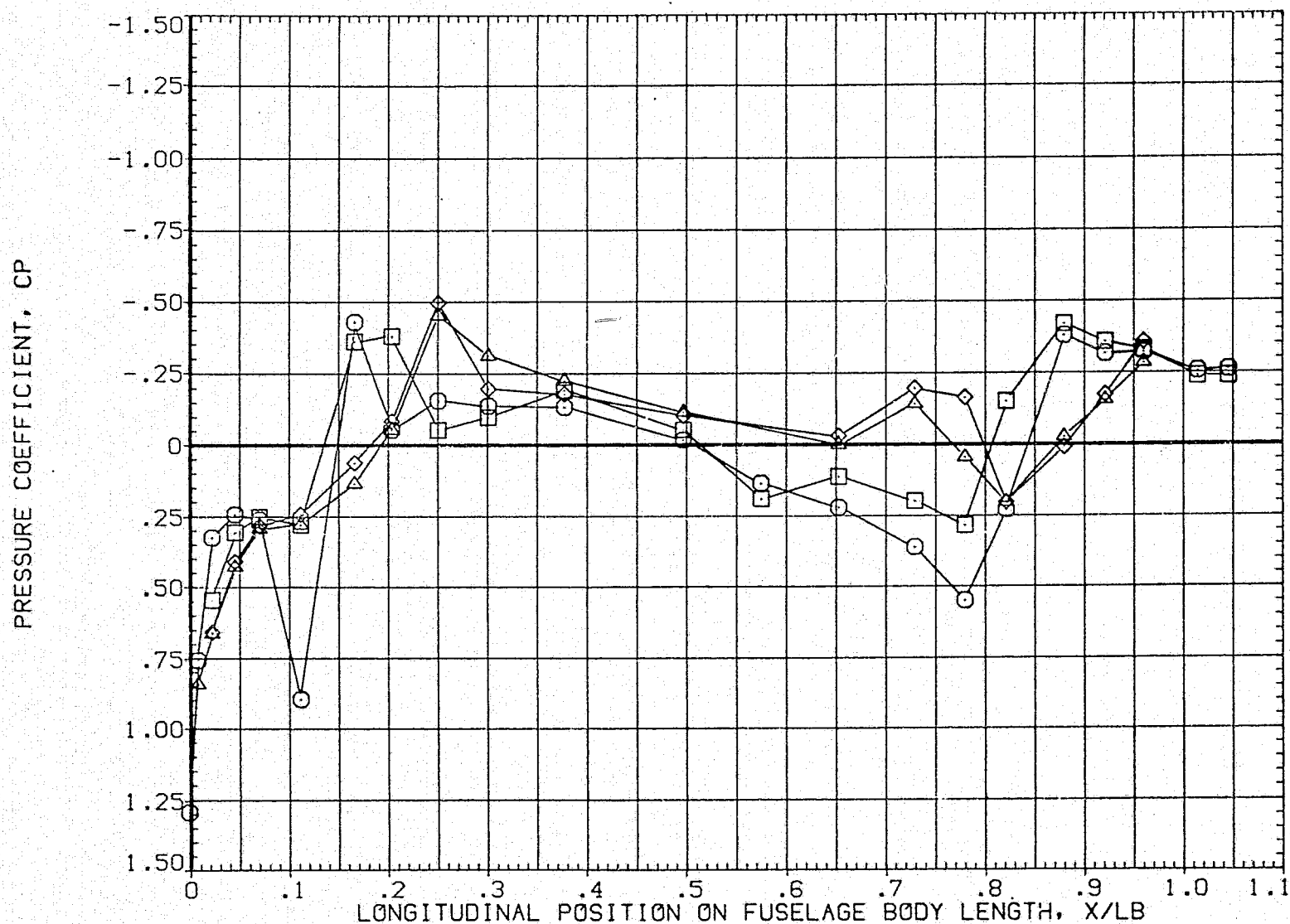


FIG. 54 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

ARC11-019 1A81 LVAP(ELHL UNSEALD) ORB. FUSELAGE (IETB09)

SYMBOL	PHI	BETA0	ALPHA0
○	120.000	-4.000	.000
□	150.000		
◇	165.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

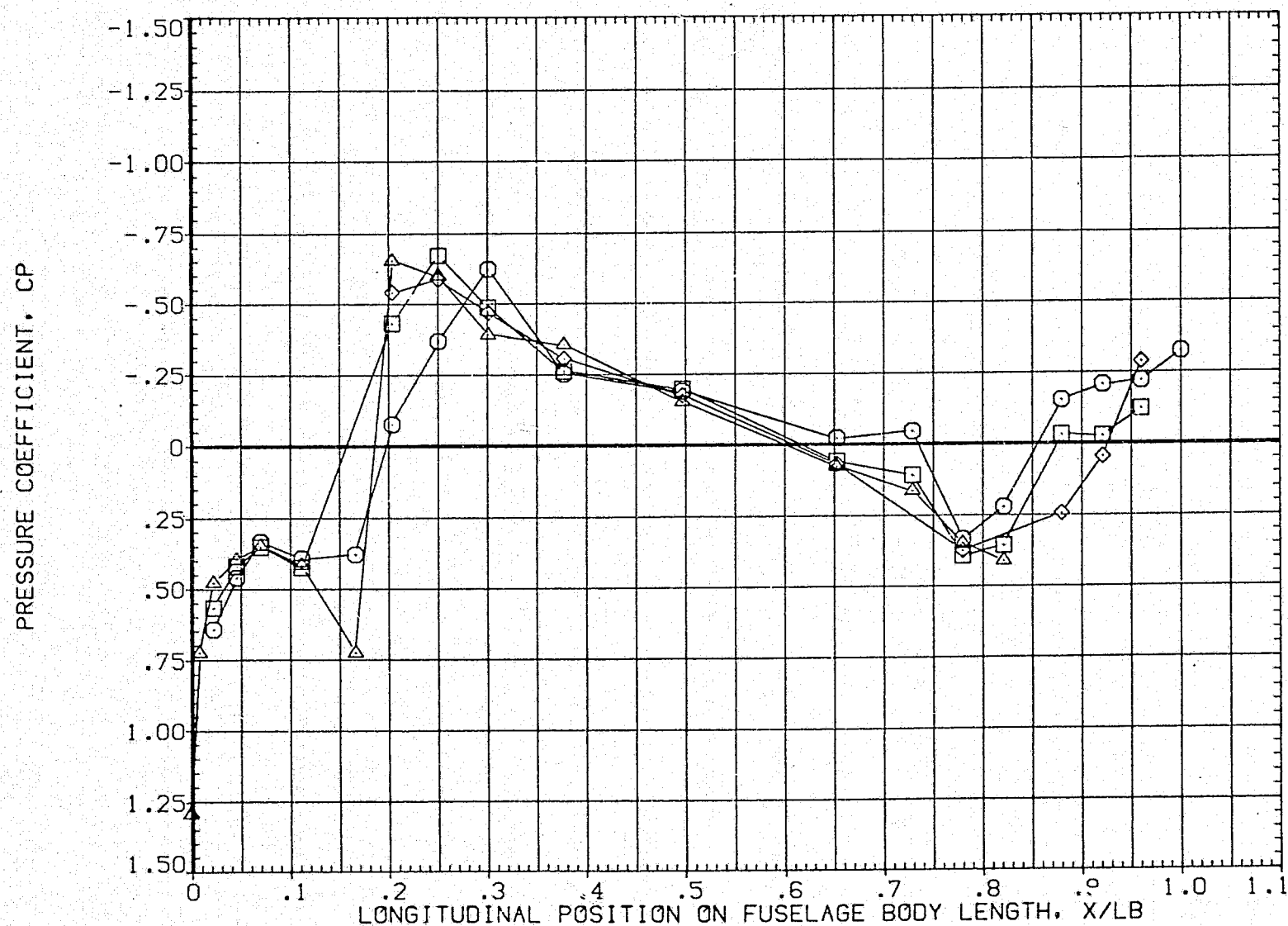


FIG. 54 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

ARC11-019 1A81 LVAP(ELHL UNSEALD) ORB. FUSELAGE (IETB09)

SYMBOL	PHI	BETA0	ALPHA*
○	.000	.003	.000
□	40.000		
◇	70.000		
△	90.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

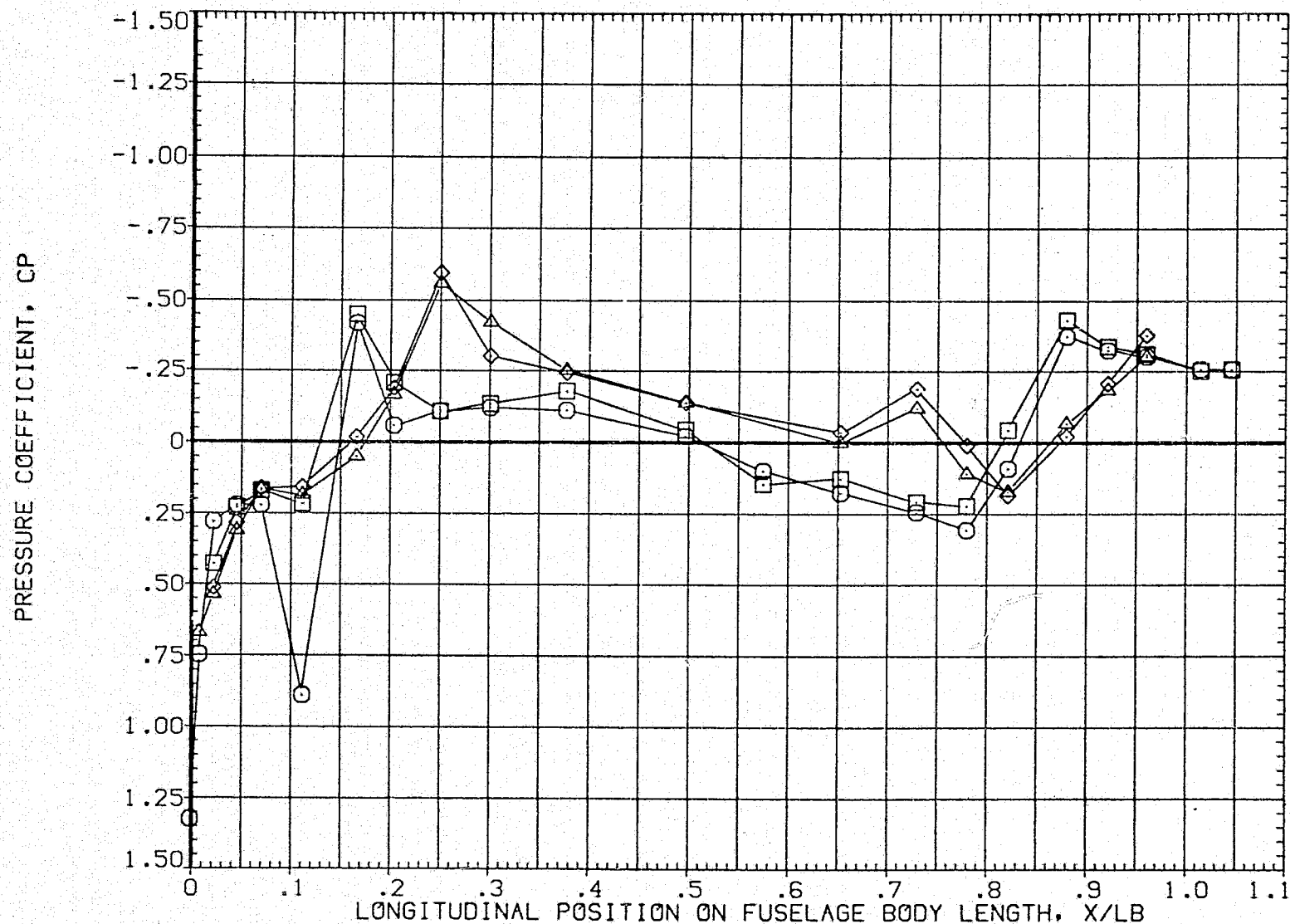


FIG. 54 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

ARC11-019 1A81 LVAP(ELHL UNSEALD) ORB. FUSELAGE (IETB09)

SYMBOL	PHI	BETA0	ALPHA0
○	120.000	.000	.000
□	150.000		
◇	165.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

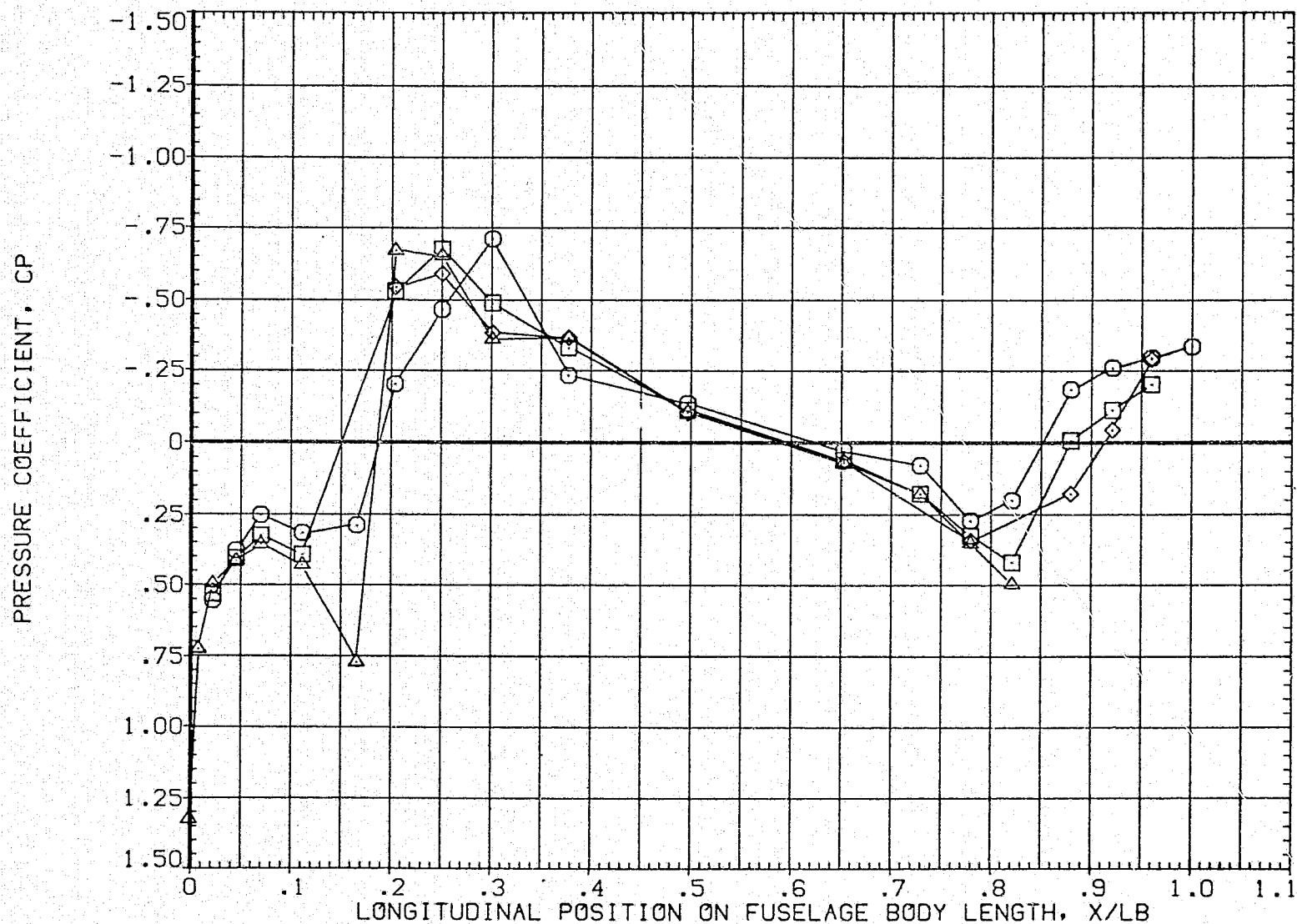


FIG. 54 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

SYMBOL	PHI	BETA0	ALPHA0
○	.000	4.000	.000
□	40.000		
◇	70.000		
△	90.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

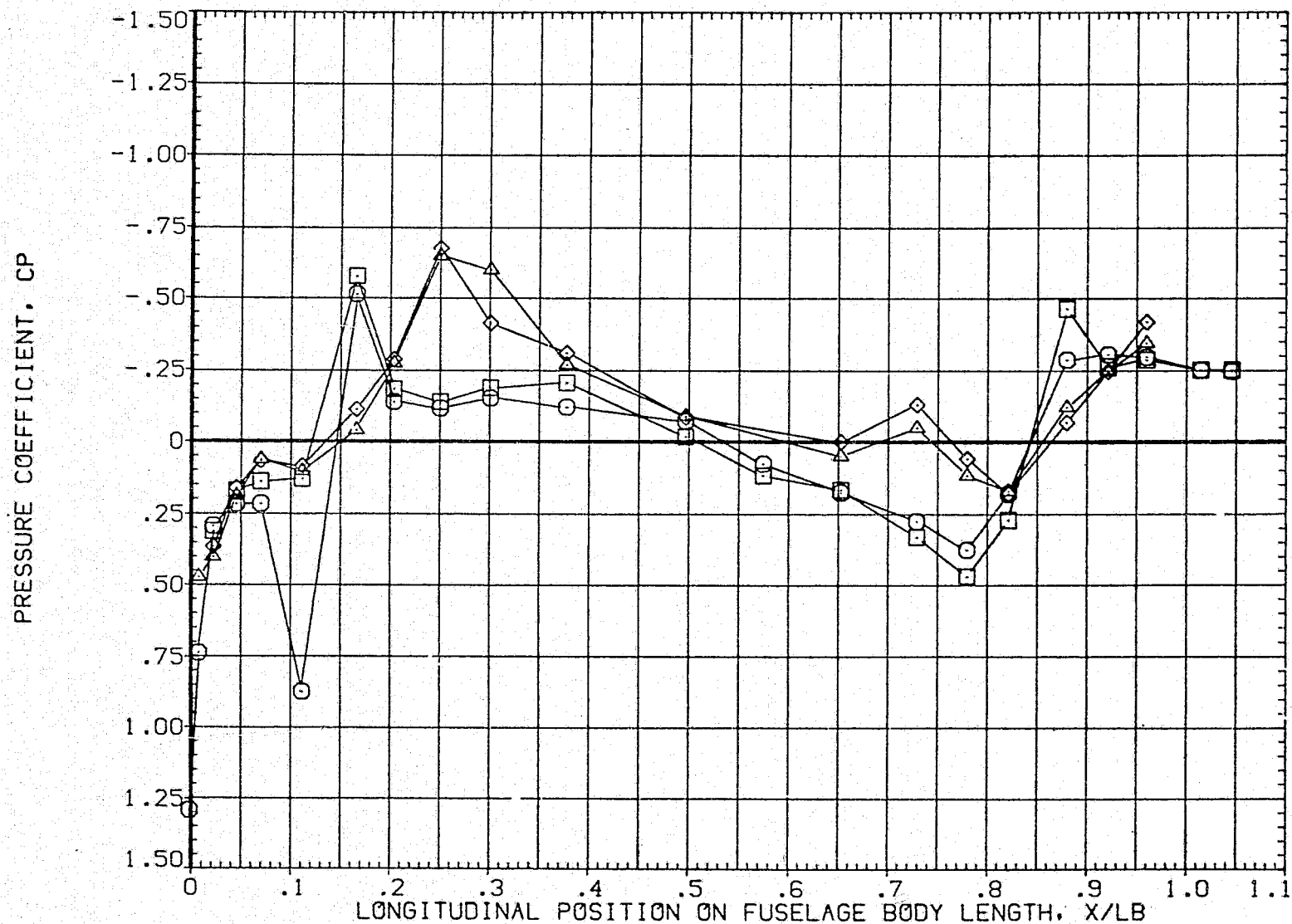


FIG. 54 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

ARC11-019 IA81 LVAP(ELHL UNSEALD) ORB. FUSELAGE (IETB09)

SYMBOL
○
□
◇
△

PHI
120.000
150.000
165.000
180.000

BETA0
4.000

ALPHA0
.000

MACH
ELV-1B
RUDDER

PARAMETRIC VALUES
1.100
8.000
.000

RN/FT
ELV-0B
SPDBRK
2.250
4.000
.000

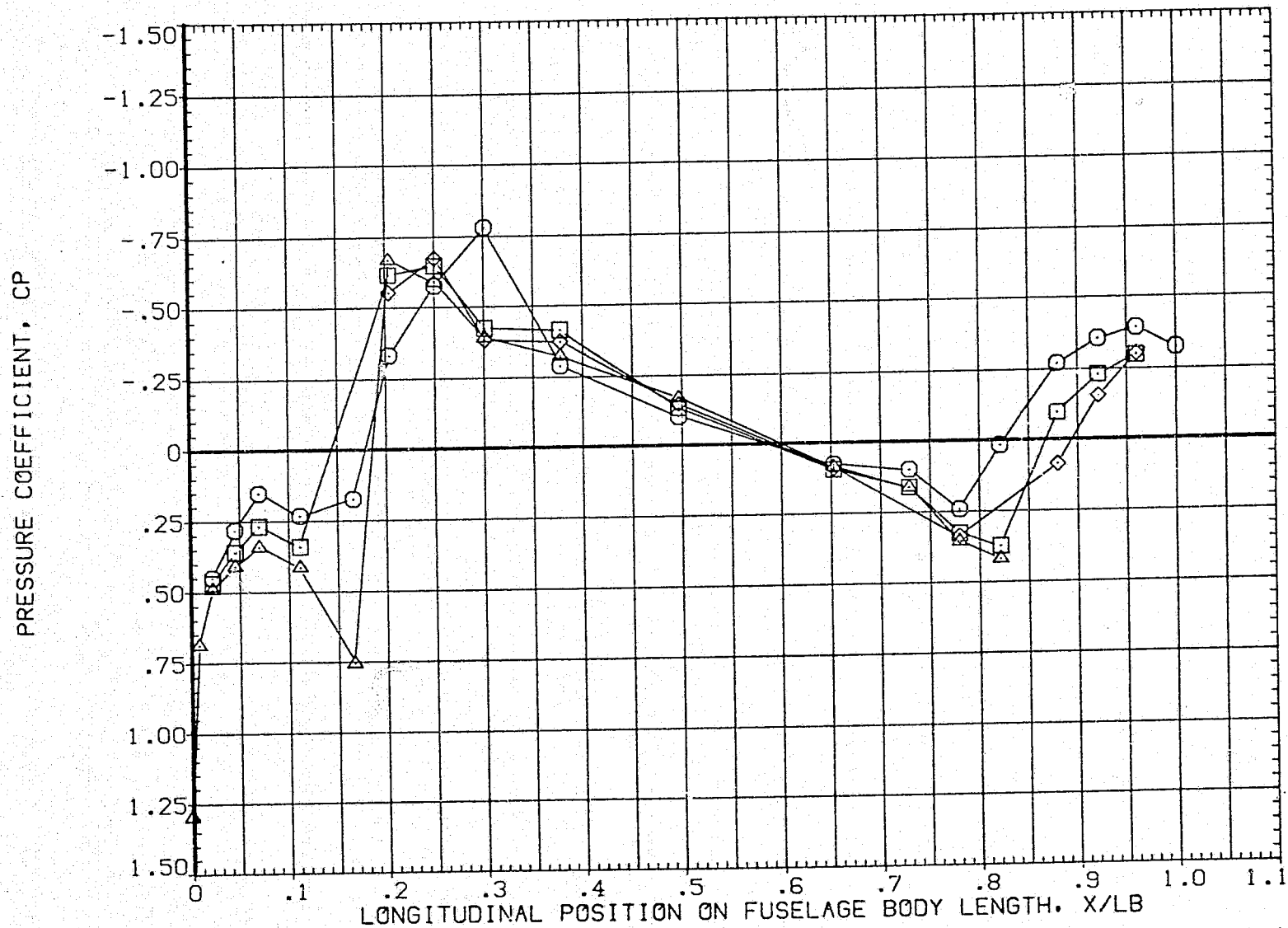


FIG. 54 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

ARC11-019 IA81 LVAP(ELHL UNSEALD) ORB. FUSELAGE (IETB09)

SYMBOL	PHI	BETA0	ALPHA0
○	.000	-4.000	4.000
□	40.000		
◇	70.000		
△	90.000		

PARAMETRIC VALUES			
MACH	1.100	RN/F ²	2.250
ELV-IB	8.000	ELV-3B	4.000
RUDDER	.000	SPDBRK	.000

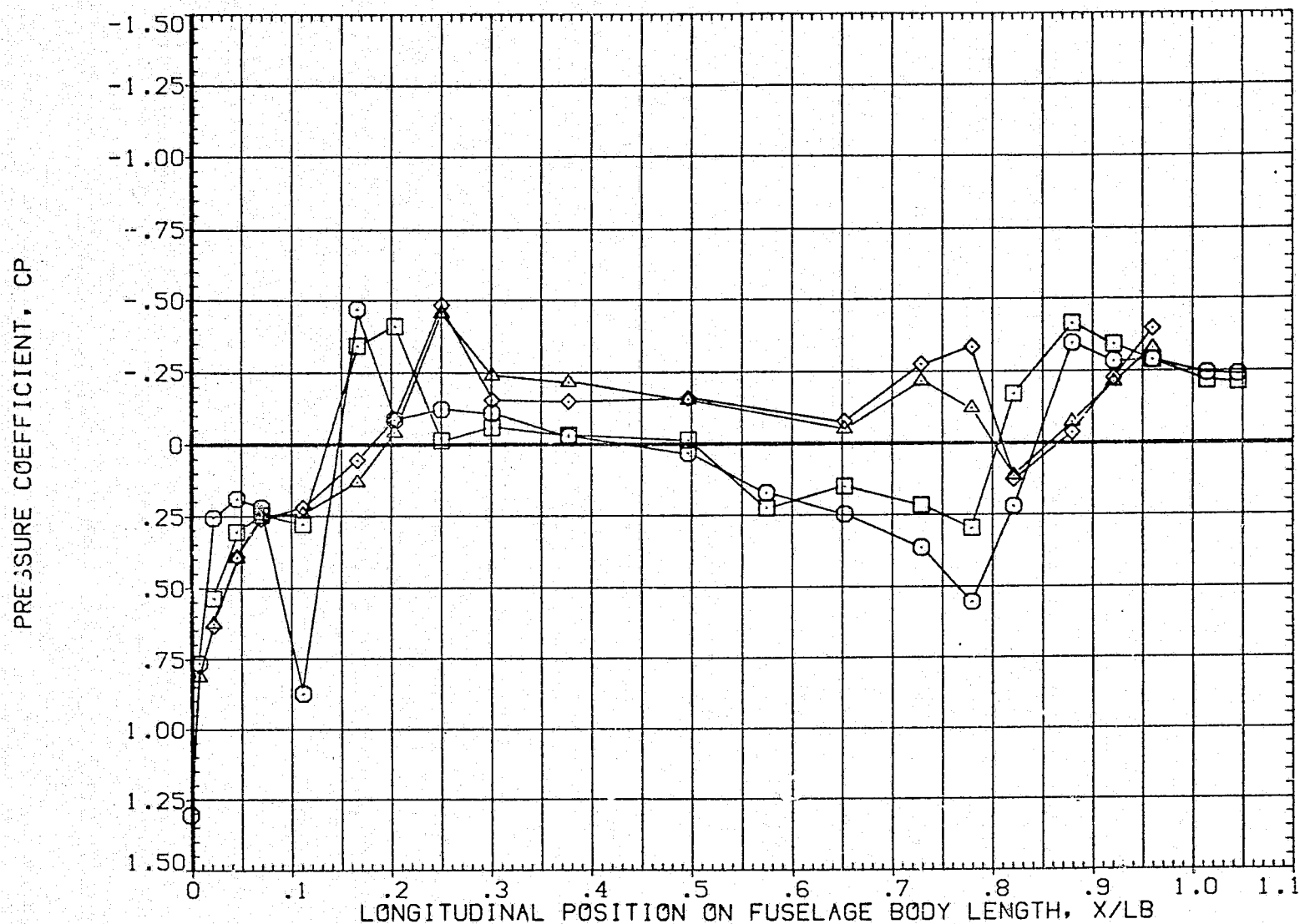


FIG. 54 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

ARC11-019 IA81 LVAP(ELHL UNSEALD) ORB. FUSELAGE (IETB09)

SYMBOL	PHI	BETA0	ALPHA0
○	120.000	-4.000	4.000
□	150.000		
◇	165.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

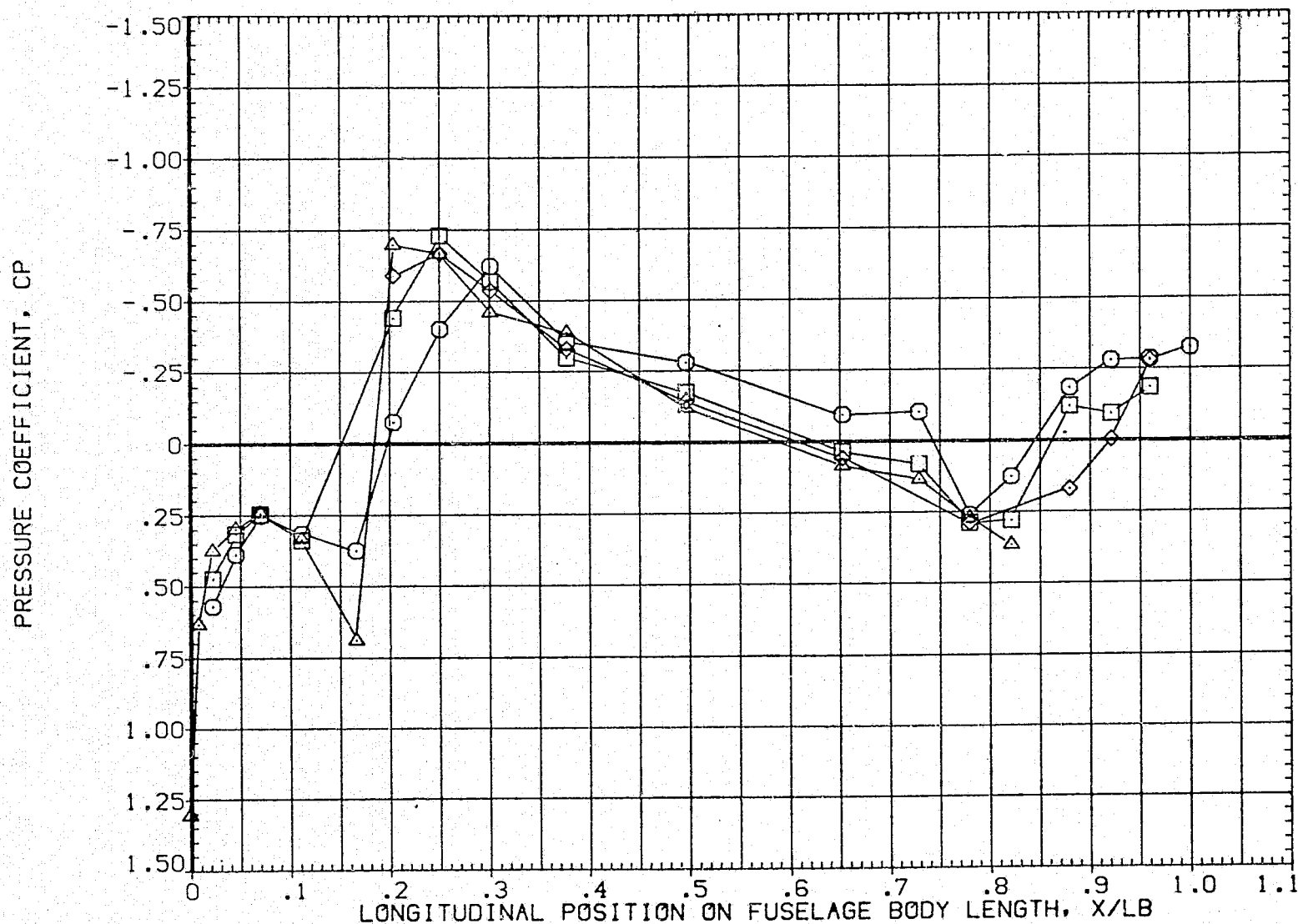


FIG. 54 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

SYMBOL	PHI	BETA0	ALPHA0
○	.000	.000	4.000
□	40.000		
◇	70.000		
△	90.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

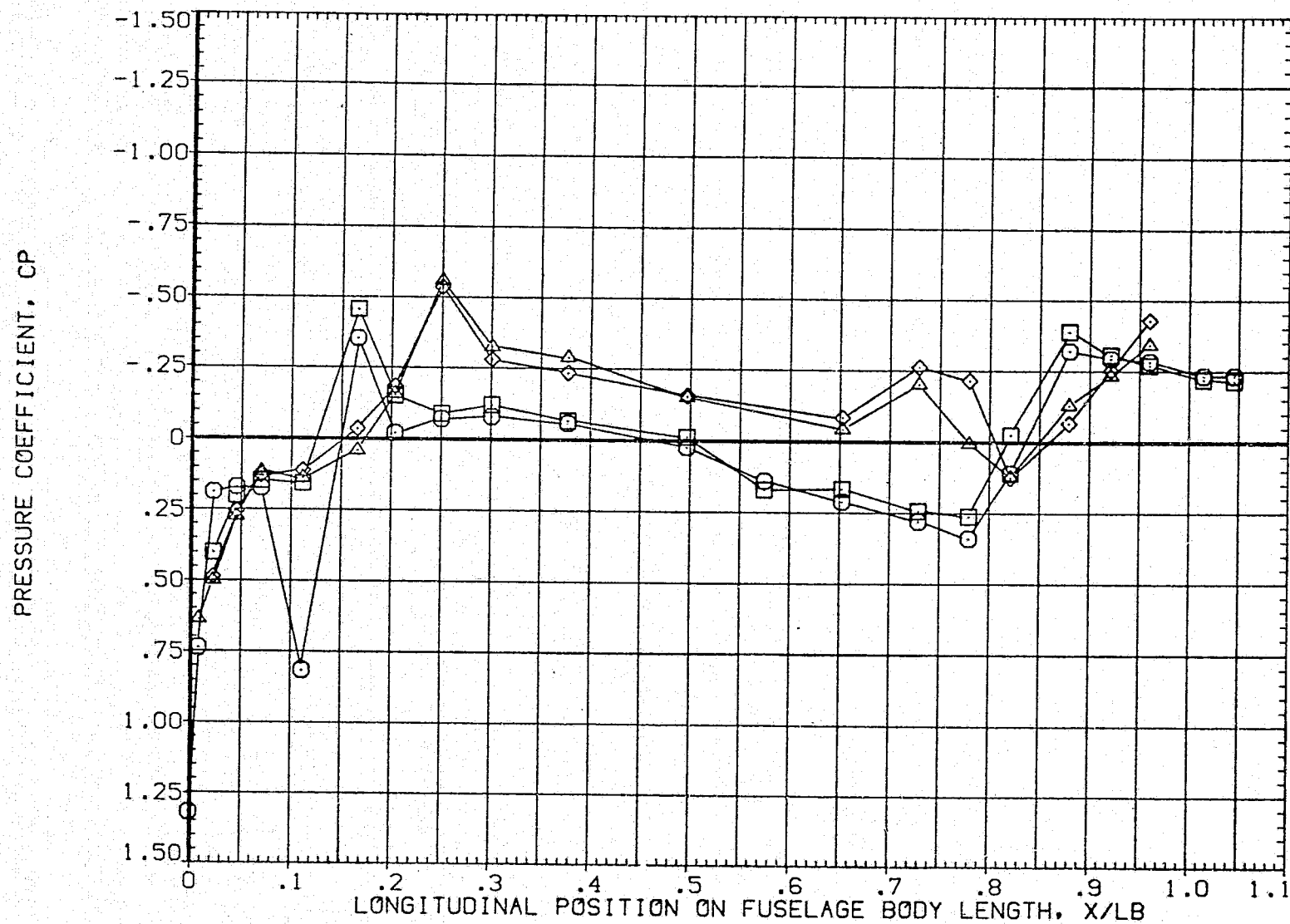


FIG. 54 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK =0, MACH = 1.1

ARC11-019 IA81 LVAP(ELHL UNSEALD) ORB. FUSELAGE (IETB09)

SYMBOL	PHI	BETA0	ALPHA0
○	120.000	.000	4.000
□	150.000		
◇	165.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

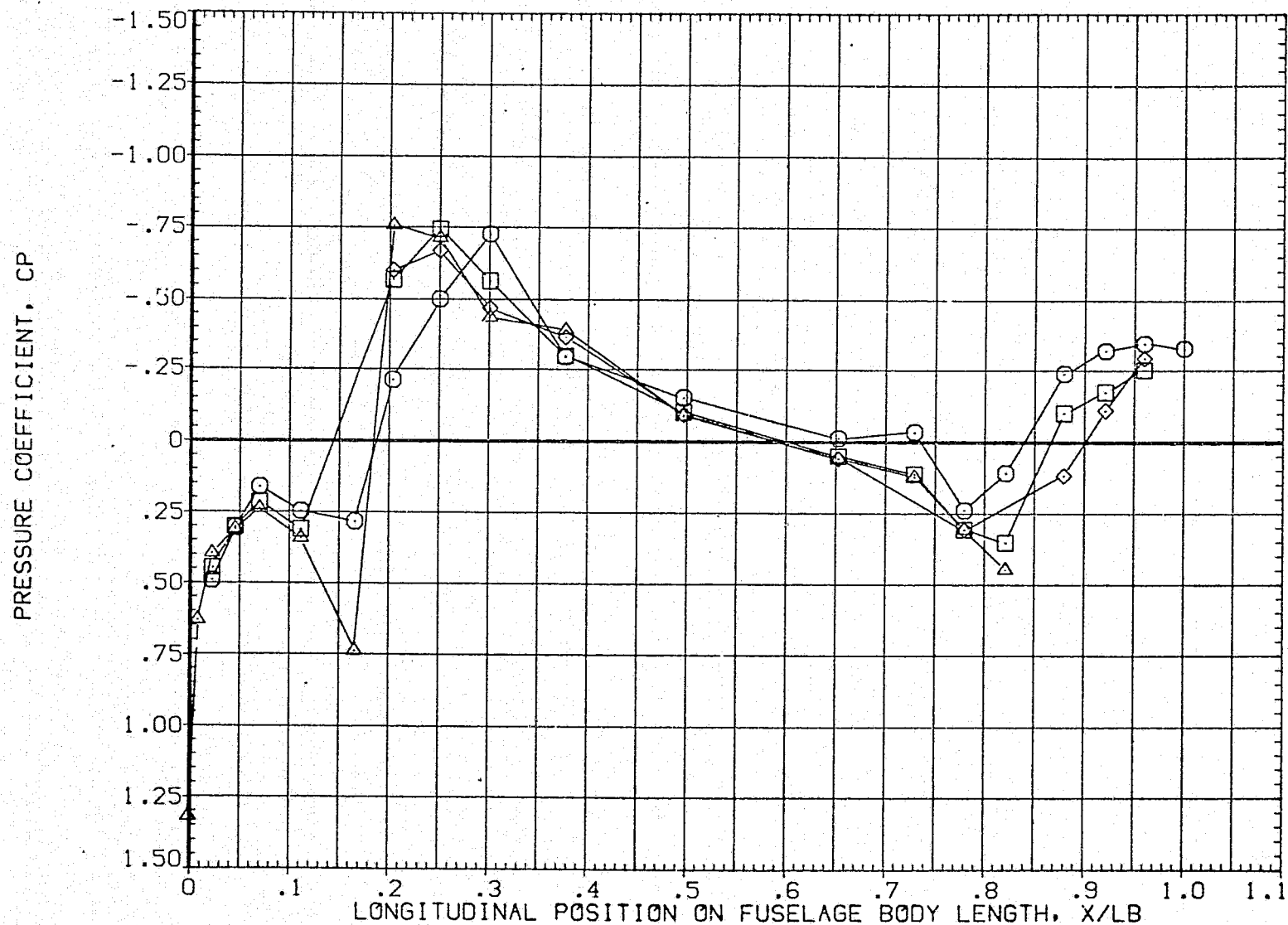


FIG. 54 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

SYMBOL	PHI	BETA0	ALPHA0
○	.000	4.000	4.000
□	40.000		
◇	70.000		
△	90.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

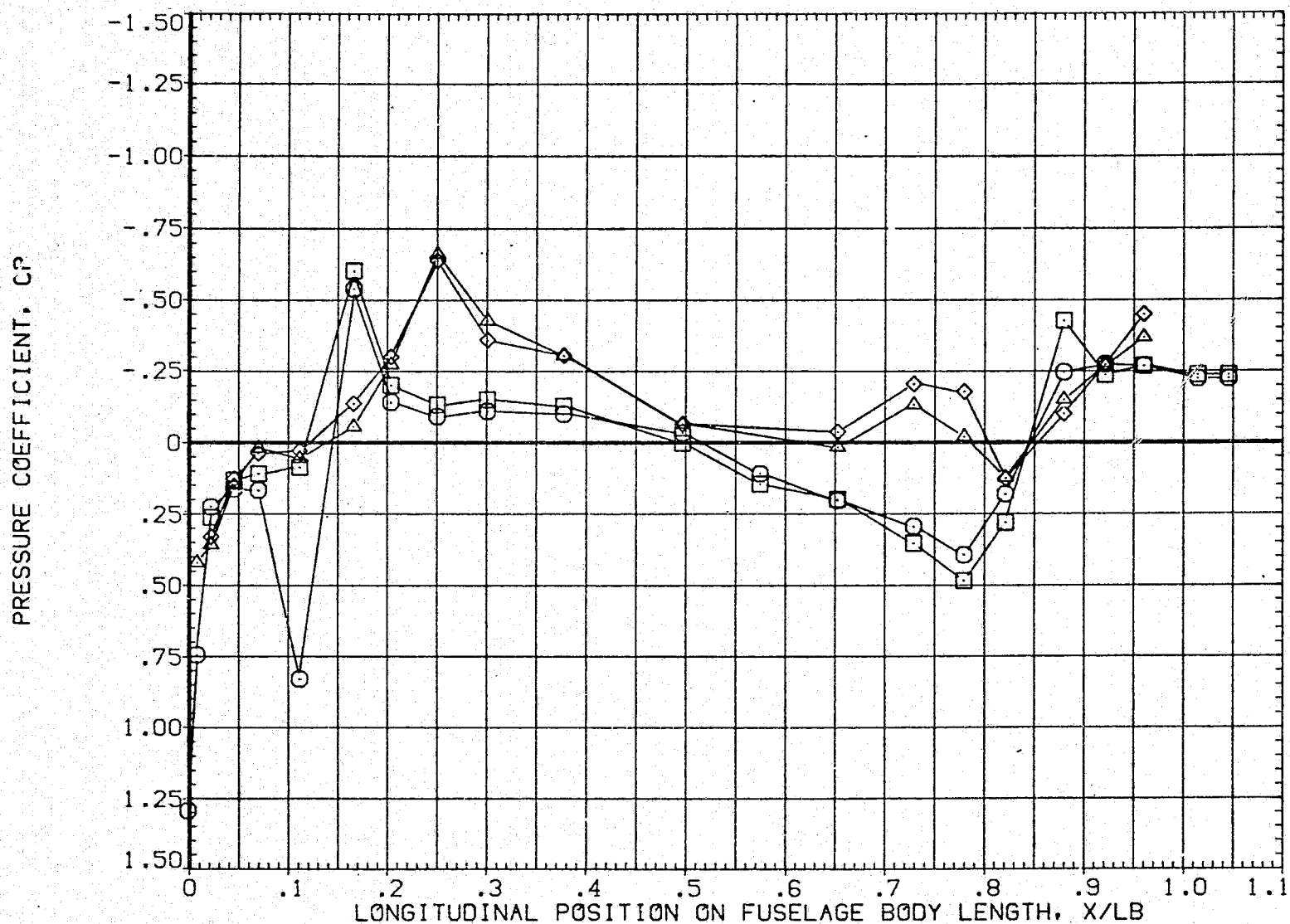


FIG. 54 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

ARC11-019 IA81 LVAP(ELHL UNSEALD) ORB. FUSELAGE (IETB09)

SYMBOL	PHI	BETA0	ALPHA0	MACH	1.100	RN/FT	2.250
○	120.000	4.000	4.000	ELV-1B	8.000	ELV-0B	4.000
□	150.000			RUDDER	.000	SPDBRK	.000
◇	165.000						
△	180.000						

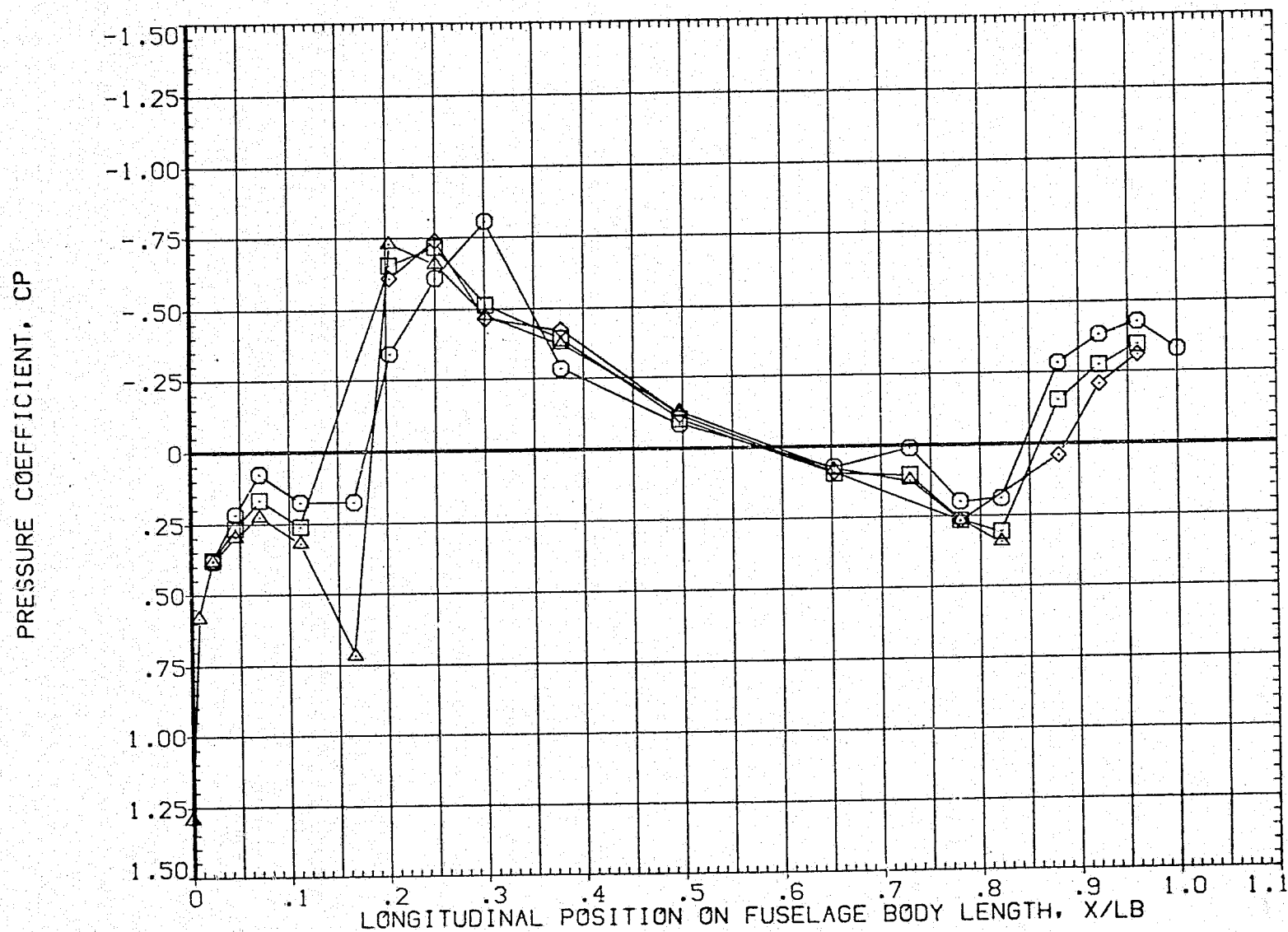


FIG. 54 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

SYMBOL	PHI	BETA0	ALPHA0
○	.000	-4.000	-4.000
□	40.000		
◇	70.000		
△	90.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

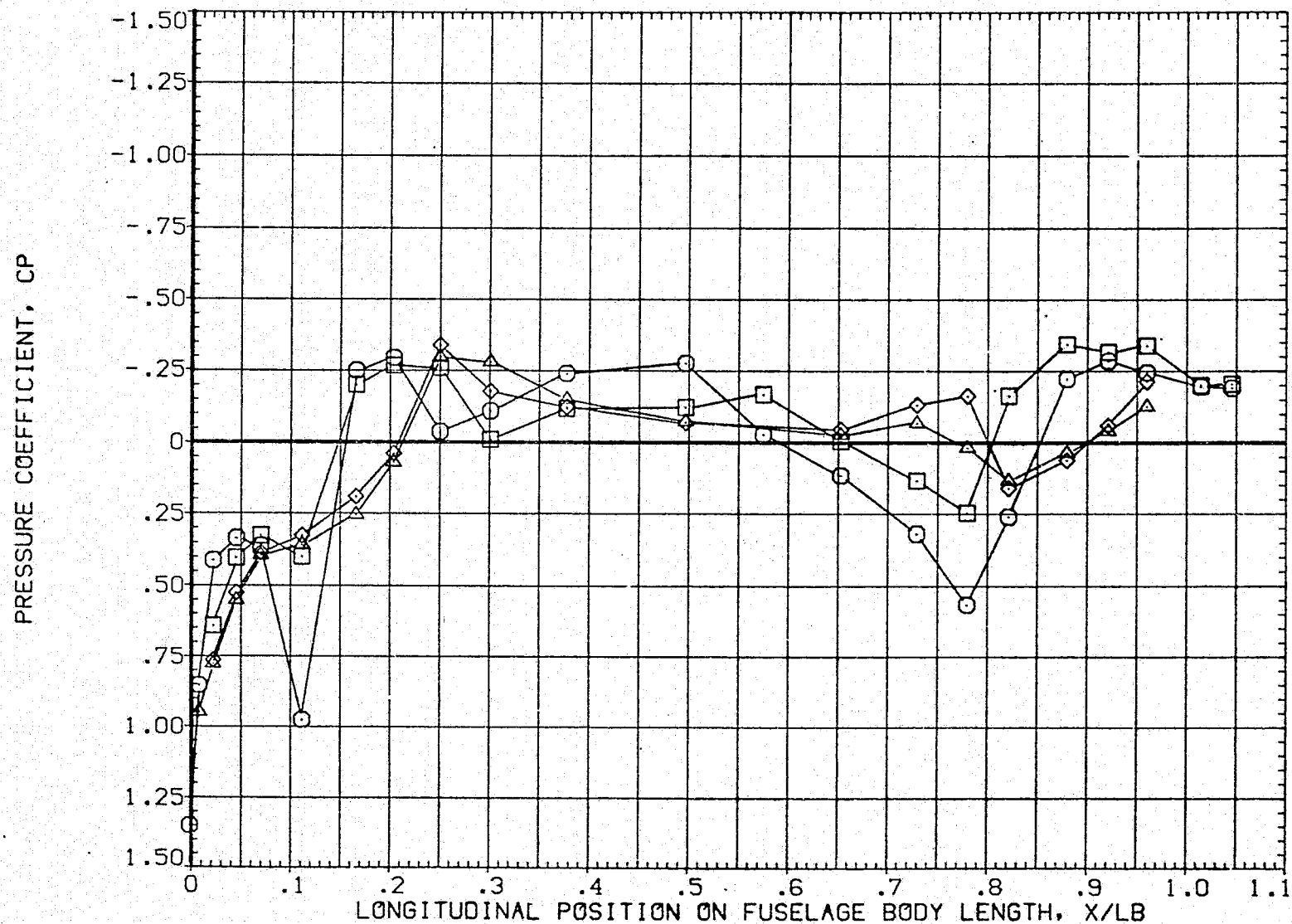


FIG. 55 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

ARC11-019 IA81 LVAP(ELHL SEALED) ORB. FUSELAGE (IETB11)

SYMBOL	PHI	BETA0	ALPHA0
○	120.000	-4.000	-4.000
□	150.000		
◇	165.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

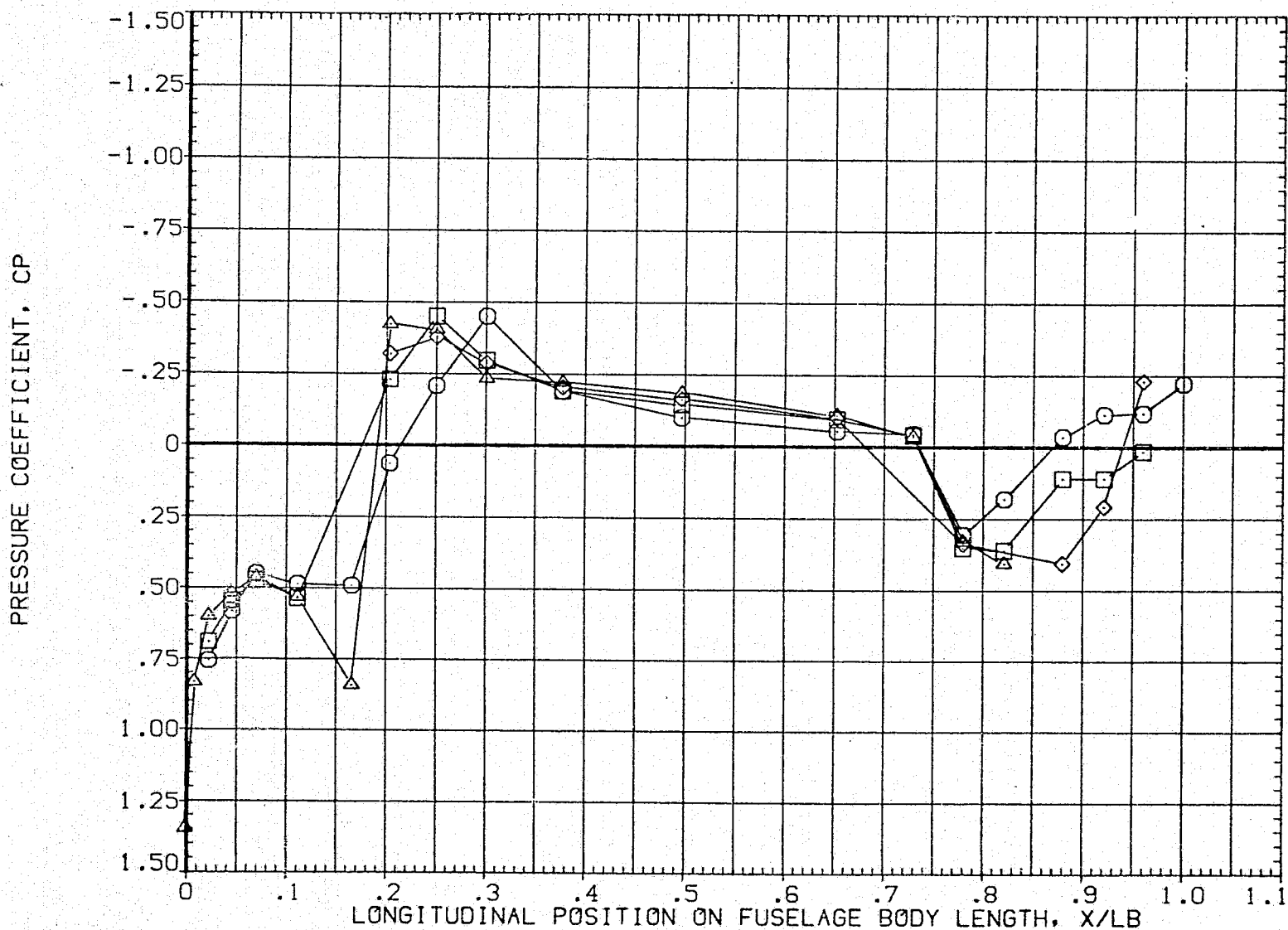


FIG. 55 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

ARC11-019 1A81 LVAP(ELHL SEALED) ORB. FUSELAGE (IETB11)

SYMBOL	PHI	BETA0	ALPHA0
○	.000	.000	-4.000
□	40.000		
◇	70.000		
△	90.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

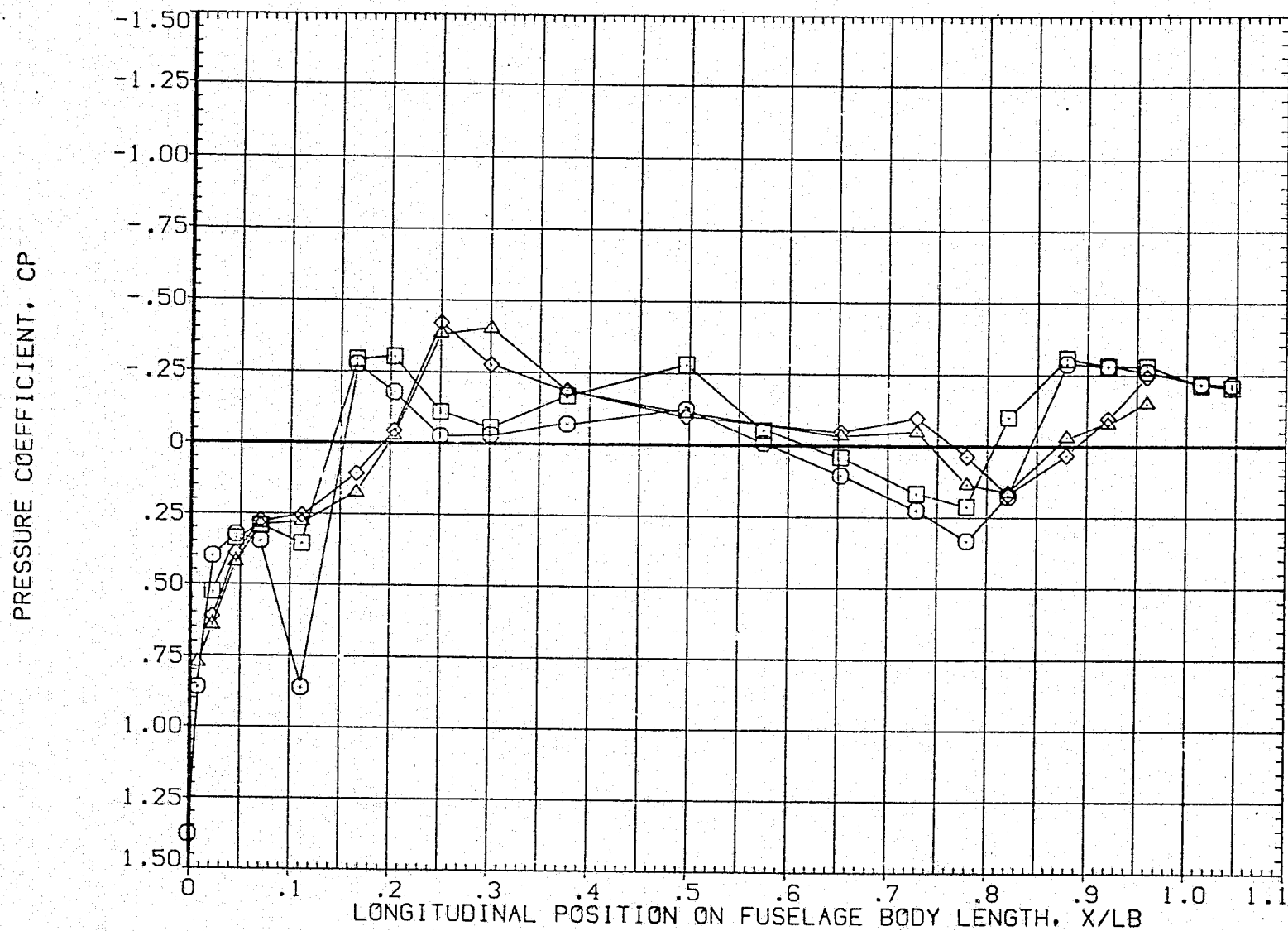


FIG. 55 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

ARC11-019 IA81 LVAP(ELHL SEALED) ORB. FUSELAGE (IETB11)

SYMBOL	PHI	BETA0	ALPHA0
○	120.000	.000	-4.000
□	150.000		
◇	165.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000



FIG. 55 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

SYMBOL	PHI	BETA0	ALPHA0
○	.000	4.000	-4.000
□	40.000		
◇	70.000		
△	90.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

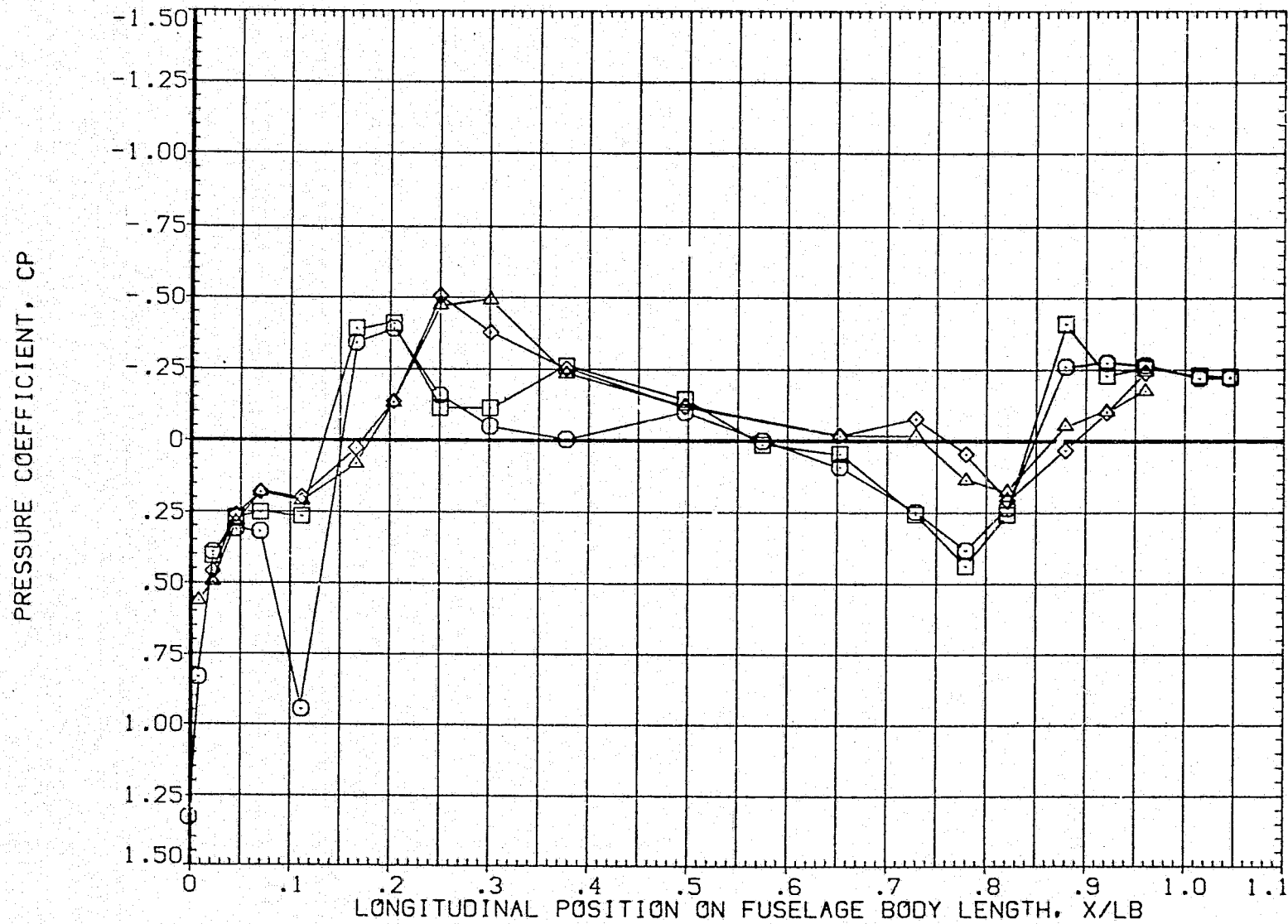


FIG. 55 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

ARC11-019 1A81 LVAP(ELHL SEALED) ORB. FUSELAGE (IETB11)

SYMBOL	PHI	BETA0	ALPHA0
○	120.000	4.000	-4.000
□	150.000		
◇	165.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-1B	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

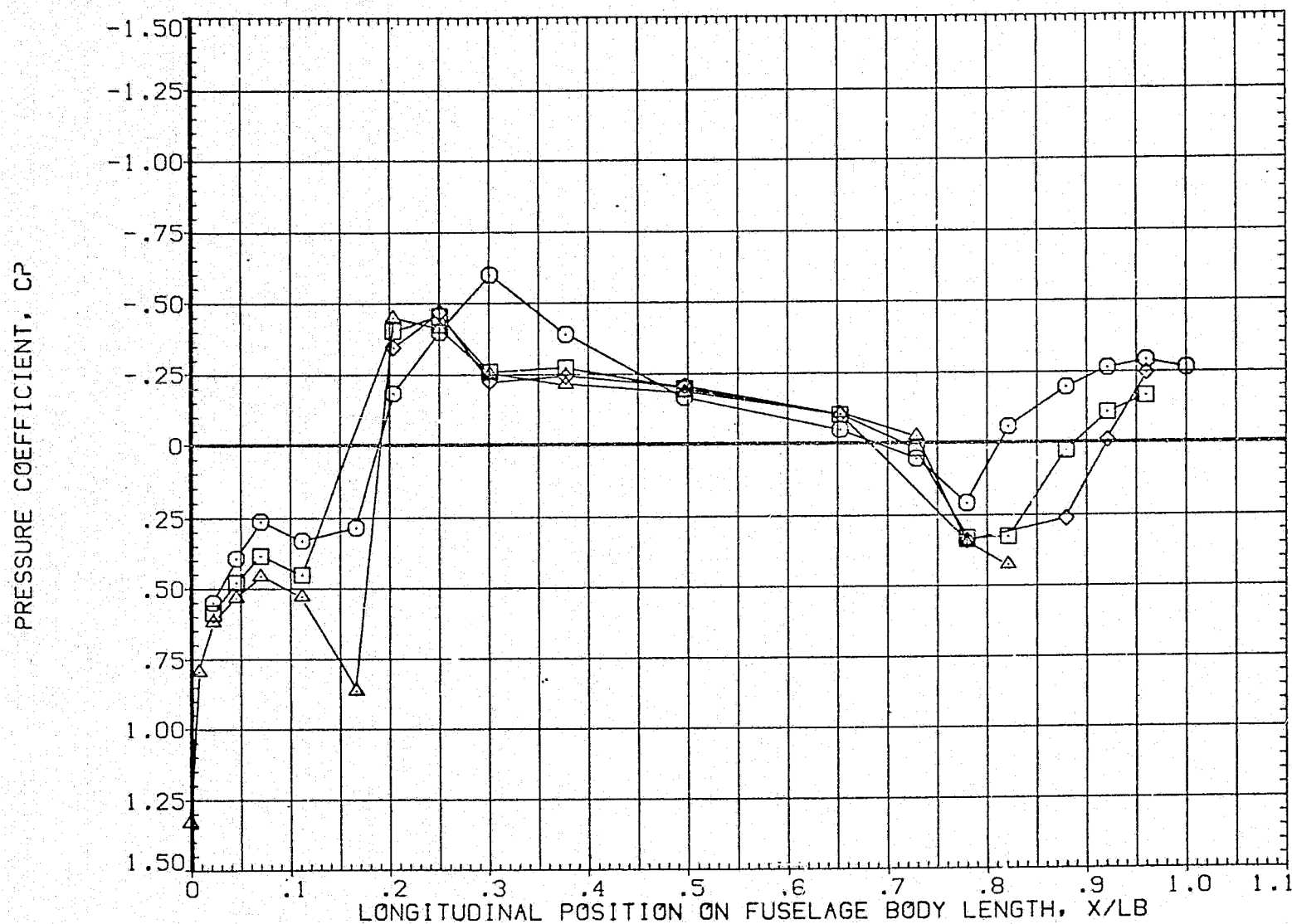


FIG. 55 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

SYMBOL	PHI	BETA0	ALPHA0
○	.000	-4.000	.000
□	40.000		
◇	70.000		
△	90.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

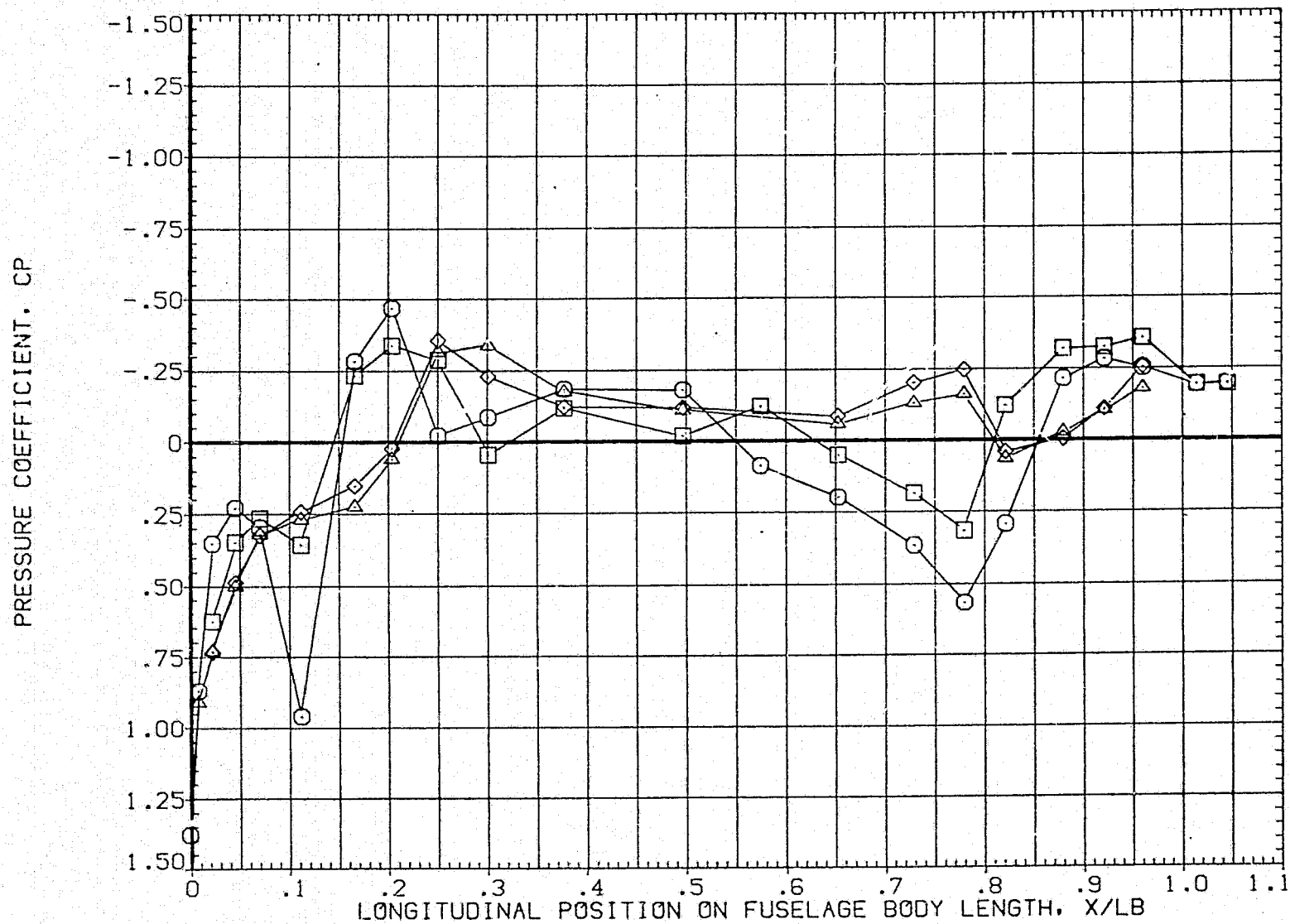


FIG. 55 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

ARC11-019 1A81 LVAP(ELHL SEALED) ORB. FUSELAGE (IETB11)

SYMBOL	PHI	BETA0	ALPHA0
○	120.000	-4.000	.000
□	150.000		
◇	165.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

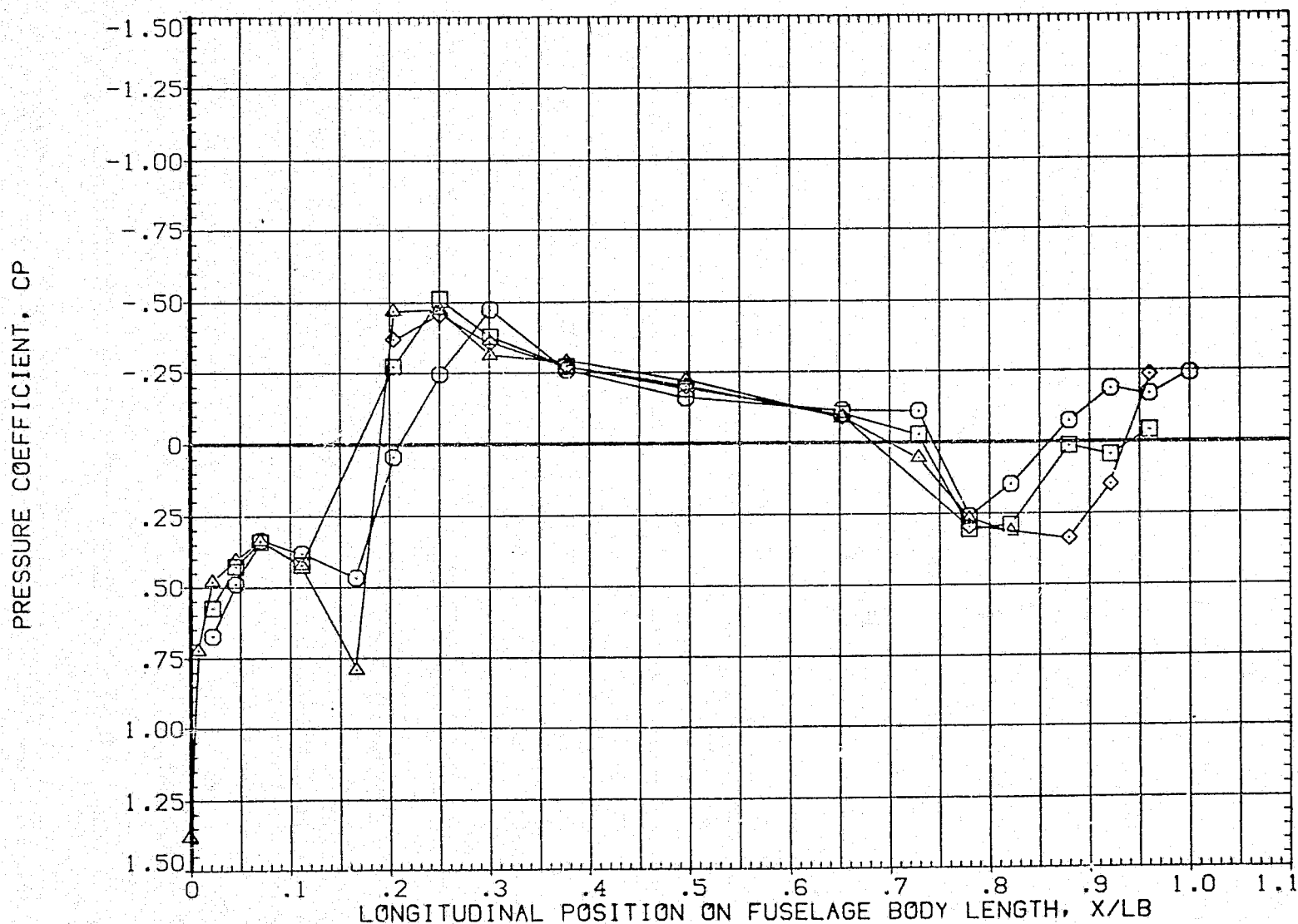


FIG. 55 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

ARC11-019 IA81 LVAP(ELHL SEALED) ORB. FUSELAGE (IETB11)

SYMBOL	PHI	BETA0	ALPHA0
○	.000	.000	.000
□	40.000		
◇	70.000		
△	90.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

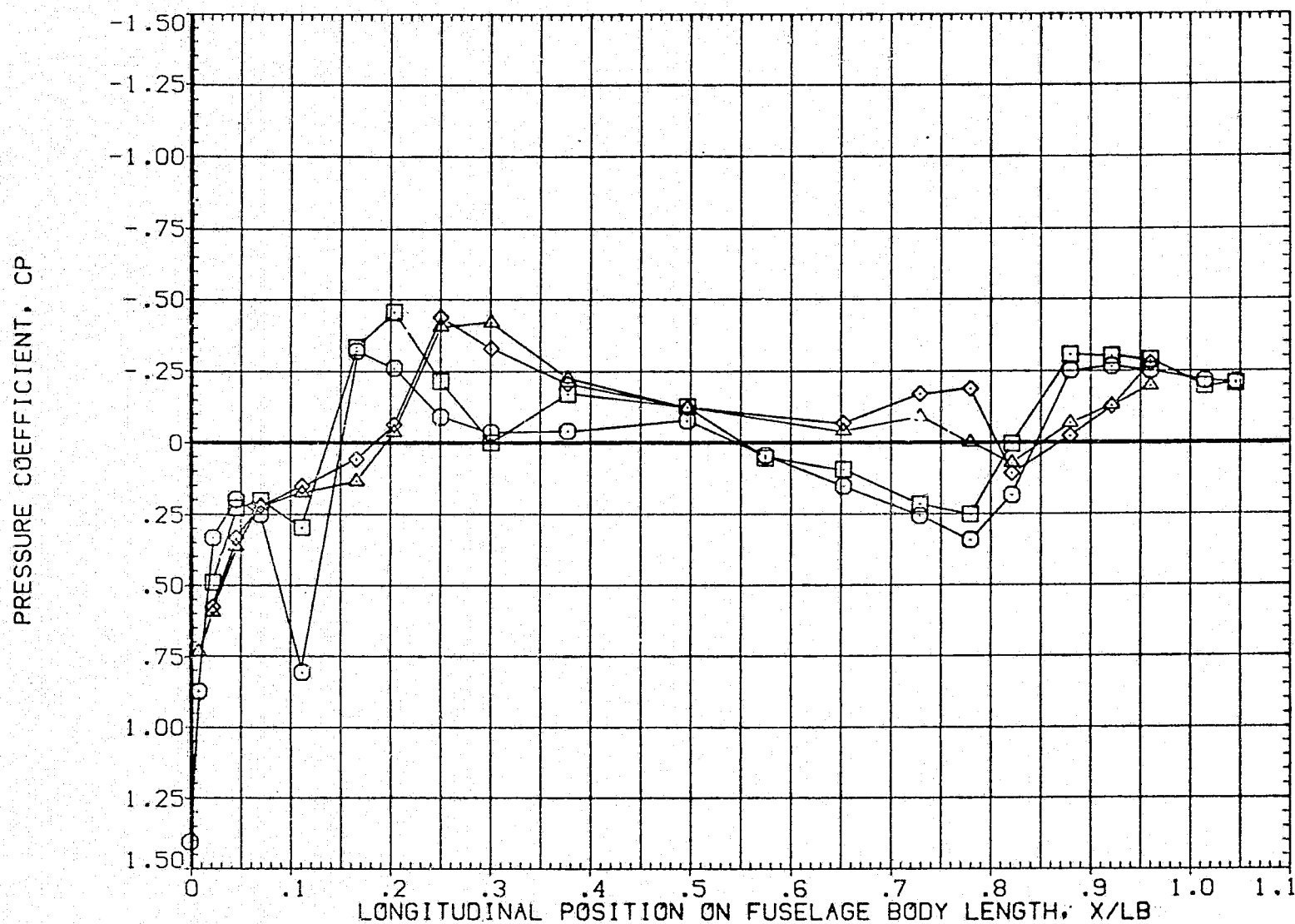


FIG. 55 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

ARC11-019 1A81 LVAP(ELHL SEALED) ORB. FUSELAGE (IETB11)

SYMBOL	PHI	BETA0	ALPHA0
○	120.000	.000	.000
□	150.000		
◇	165.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

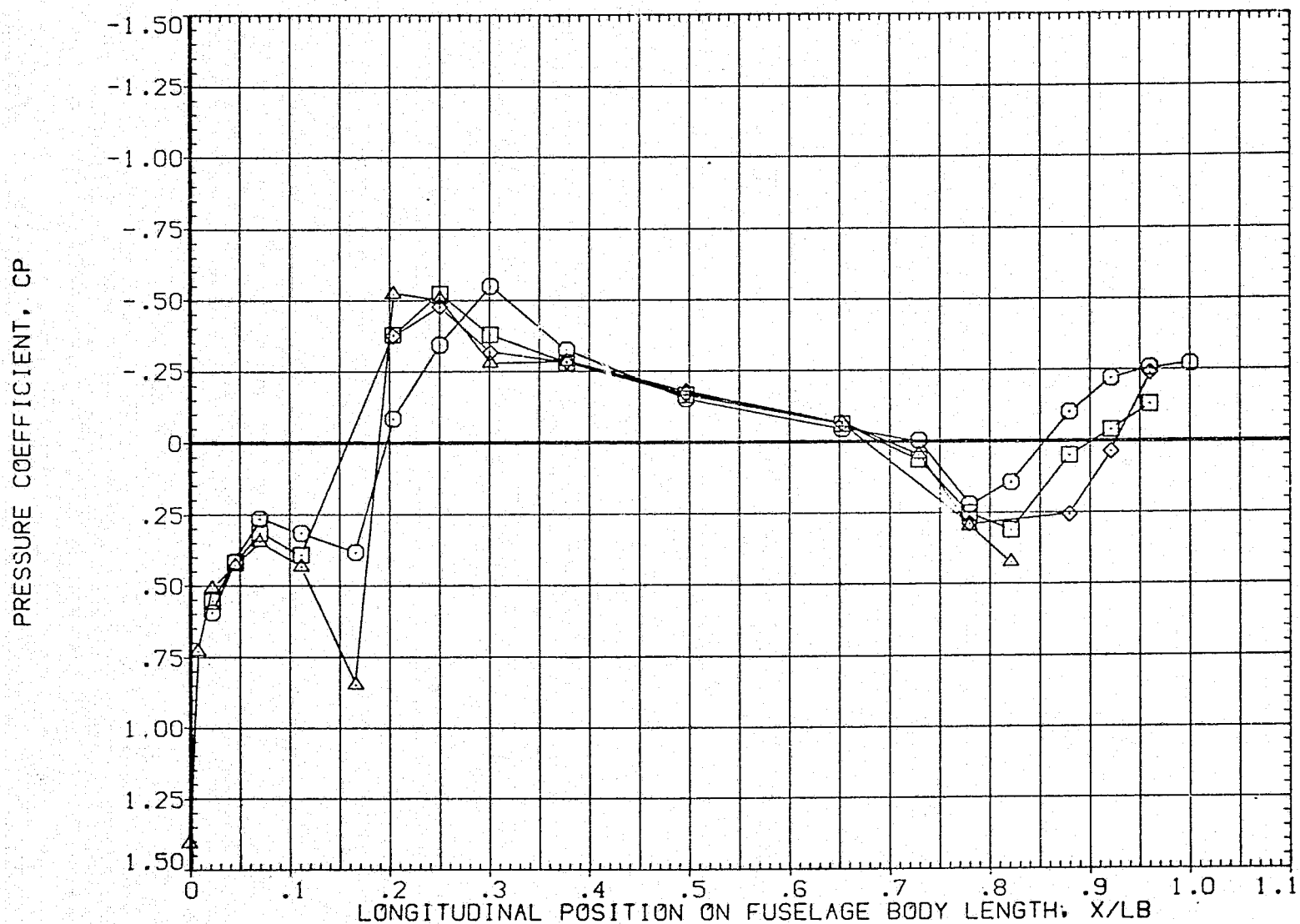


FIG. 55 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

SYMBOL



PHI

.000
40.000
70.000
90.000

BETA0

4.000

ALPHA0

.000

PARAMETRIC VALUES

MACH	1.250	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

PRESSURE COEFFICIENT, CP

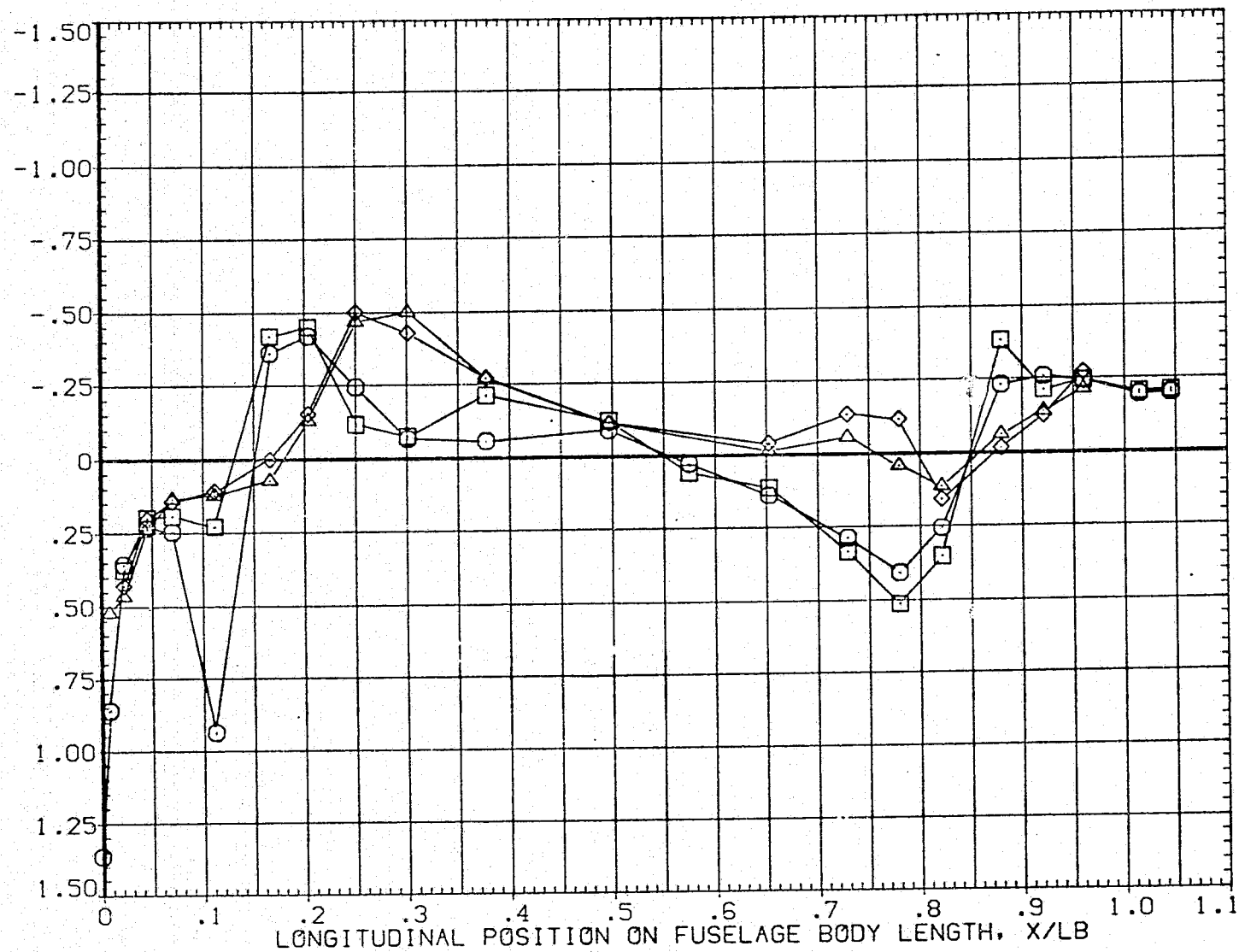


FIG. 55 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

ARC11-019 1A81 LVAP(ELHL SEALED) ORB. FUSELAGE (12TB11)

SYMBOL	PHI	BETA0	ALPHA0
○	120.000	4.000	.000
□	150.000		
◇	165.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

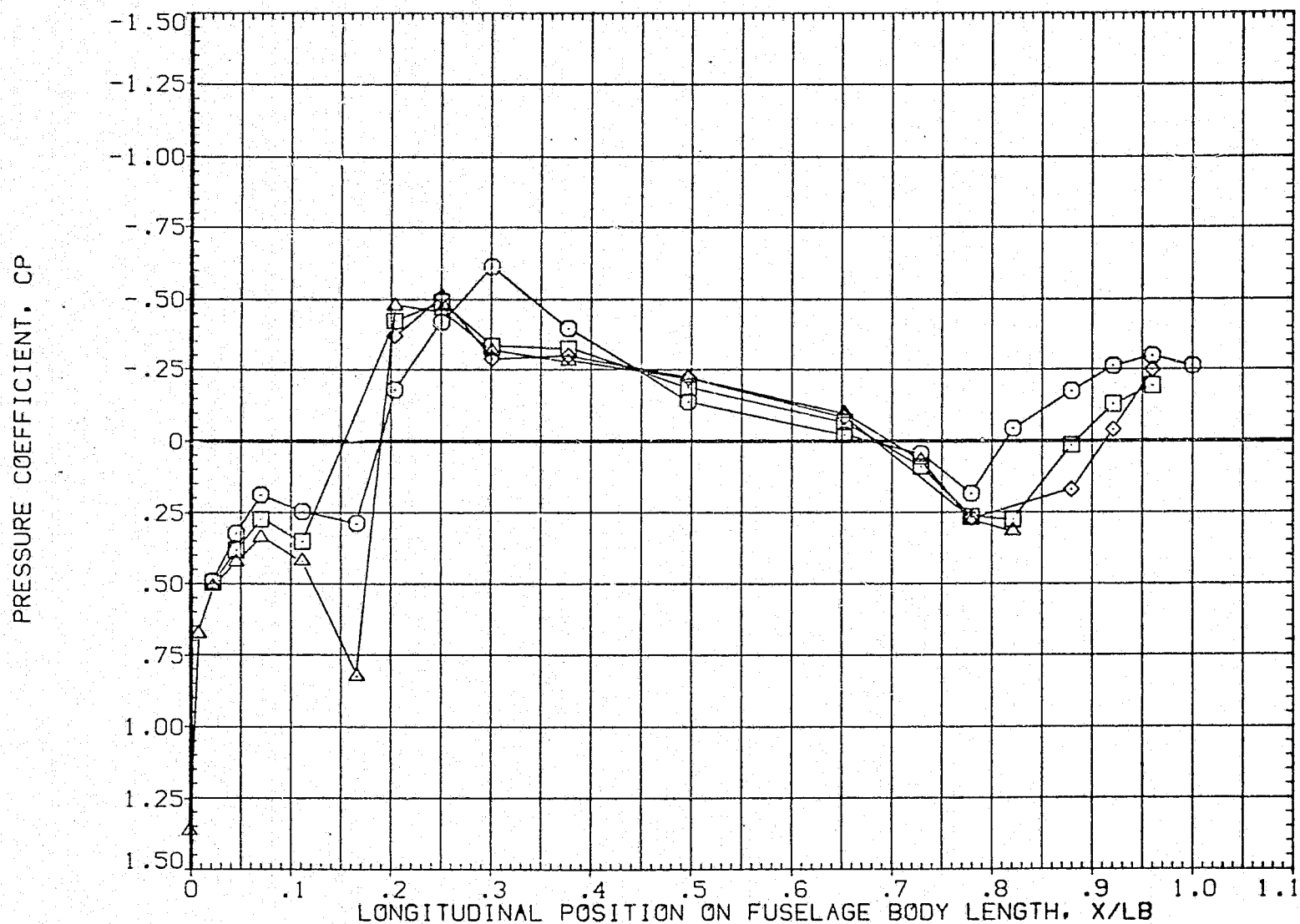


FIG. 55 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

SYMBOL	PHI	BETA θ	ALPHA θ
○	.000	-4.000	4.000
□	40.000		
◇	70.000		
△	90.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

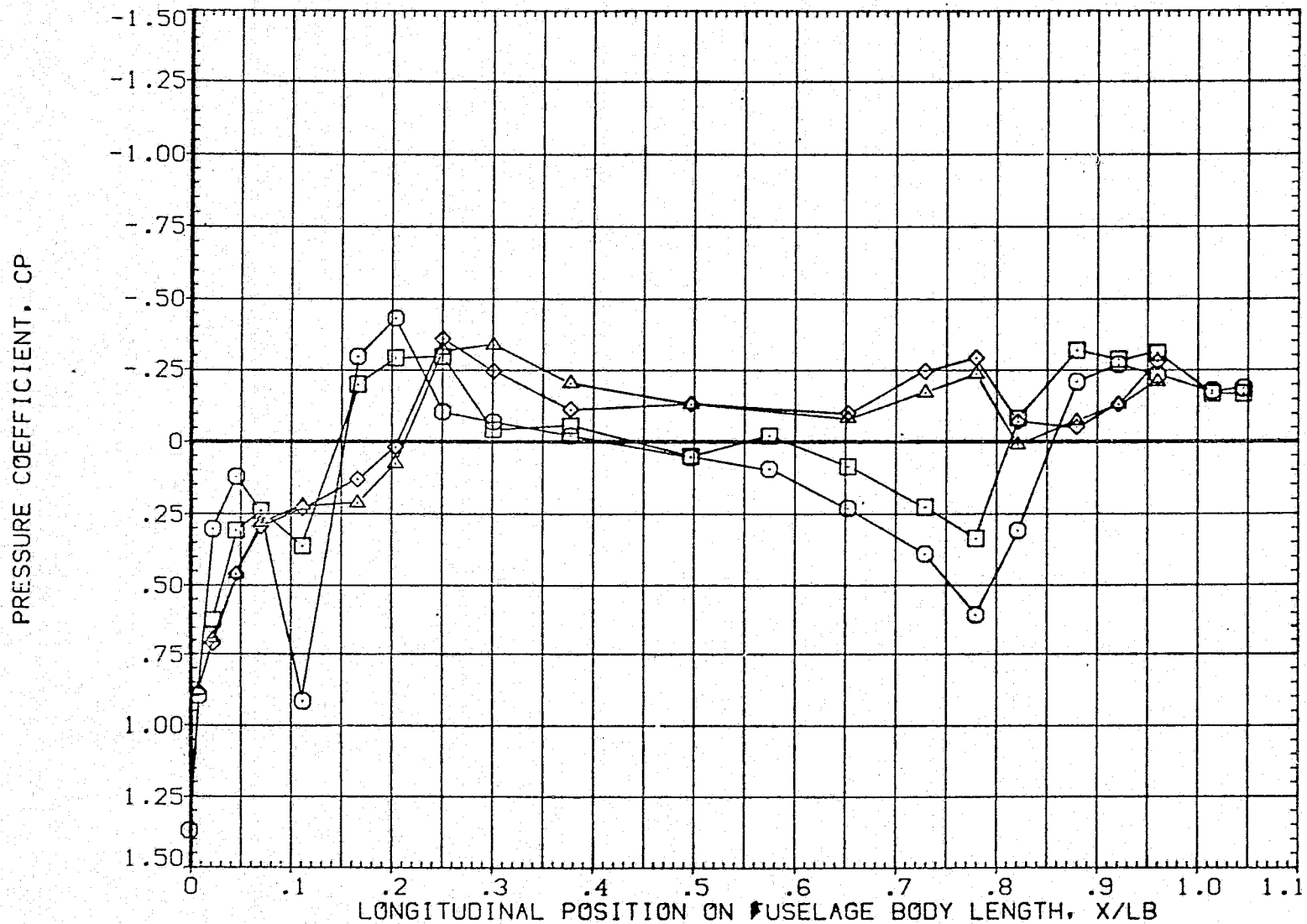


FIG. 55 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

ARC11-019 IA81 LVAP(ELHL SEALED) ORB. FUSELAGE (IETB11)

SYMBOL	PHI	BETA0	ALPHA0
○	120.000	-4.000	4.000
□	150.000		
◇	165.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

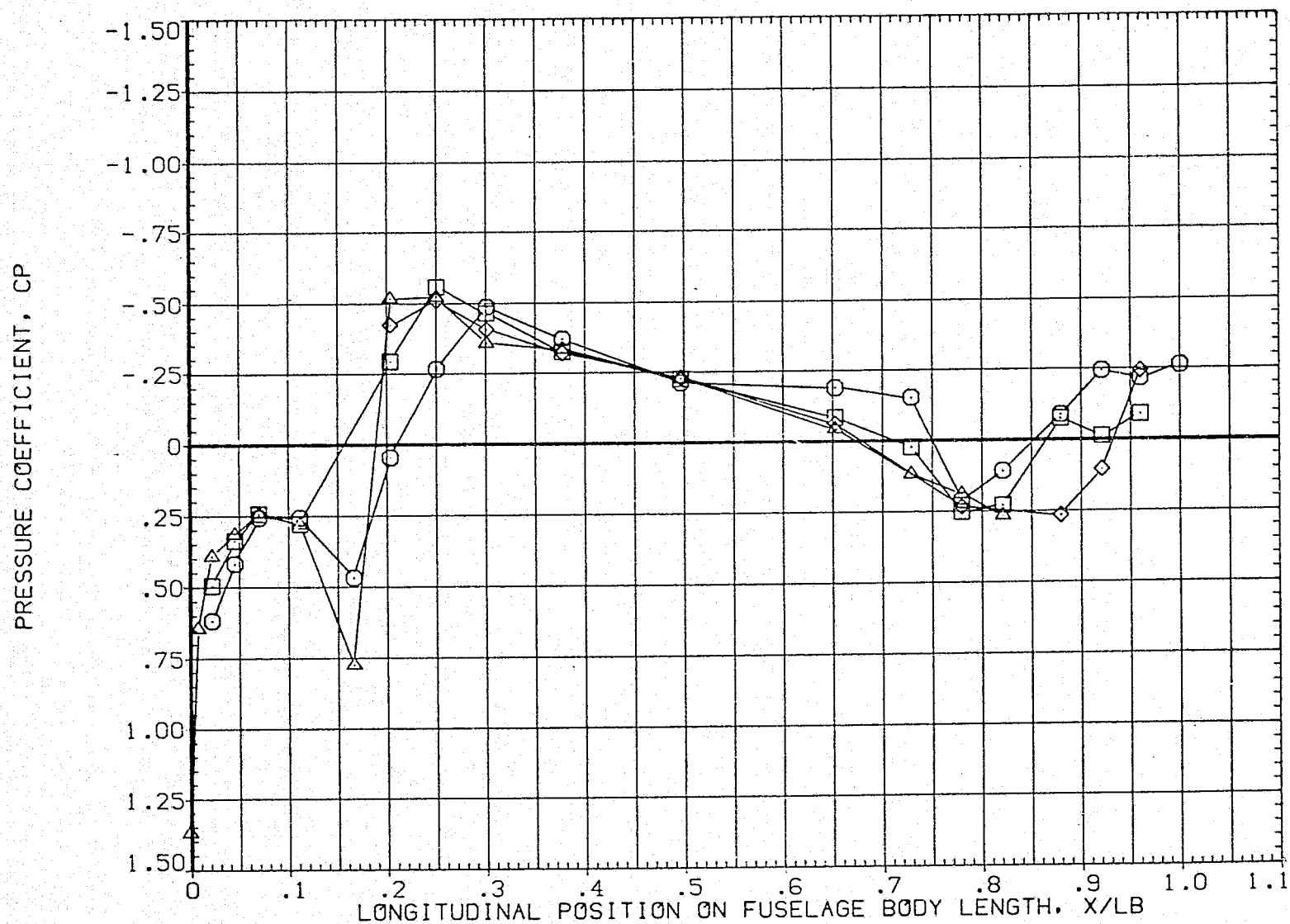


FIG. 55 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

SYMBOL	PHI	BETA0	ALPHA0
○	.000	.000	4.000
□	40.000		
◇	70.000		
△	90.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

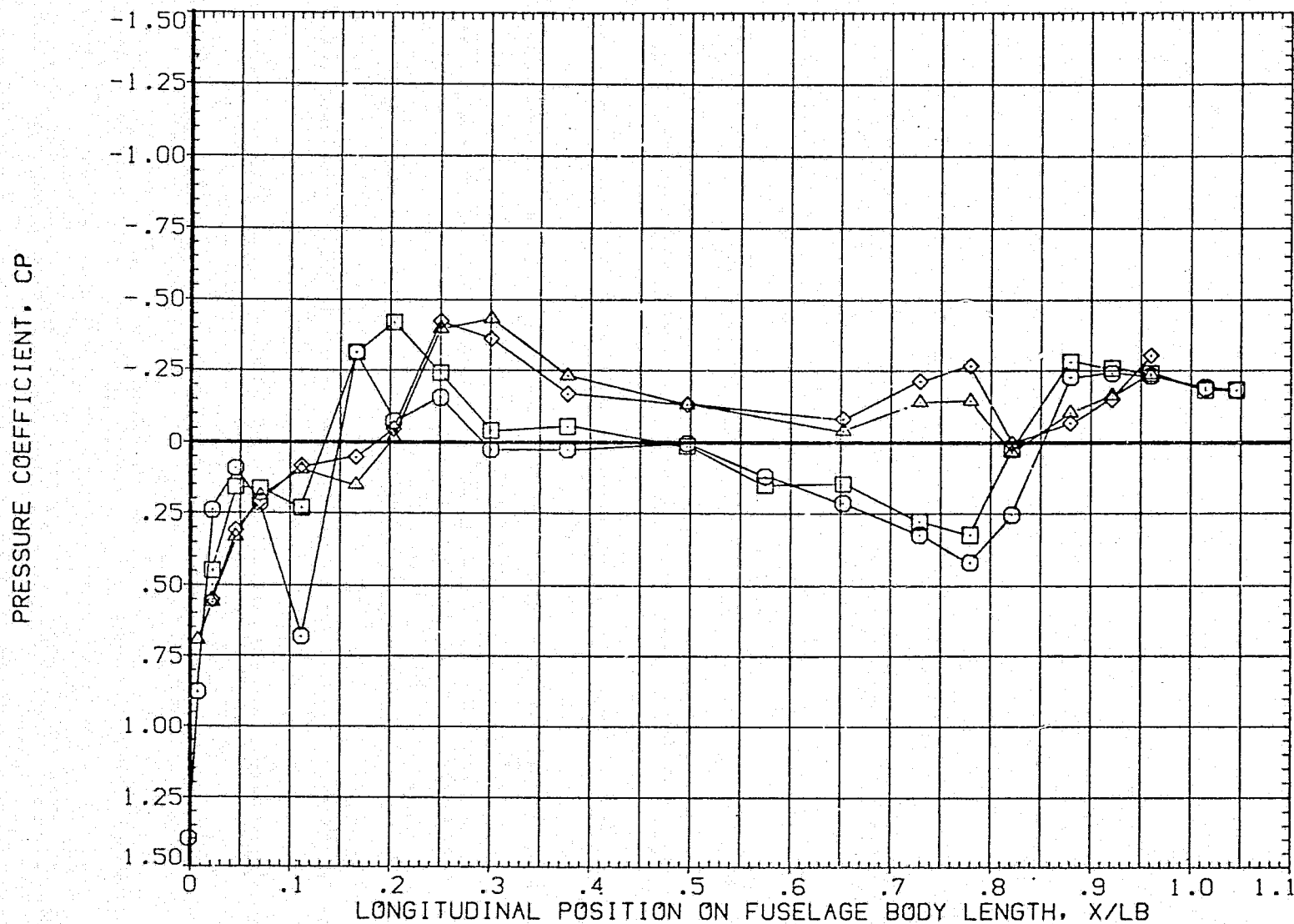


FIG. 55 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

ARC11-019 IA81 LVAP(ELHL SEALED) ORB. FUSELAGE (IETB11)

SYMBOL	PHI	BETA0	ALPHA0
○	120.000	.000	4.000
□	150.000		
◇	165.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

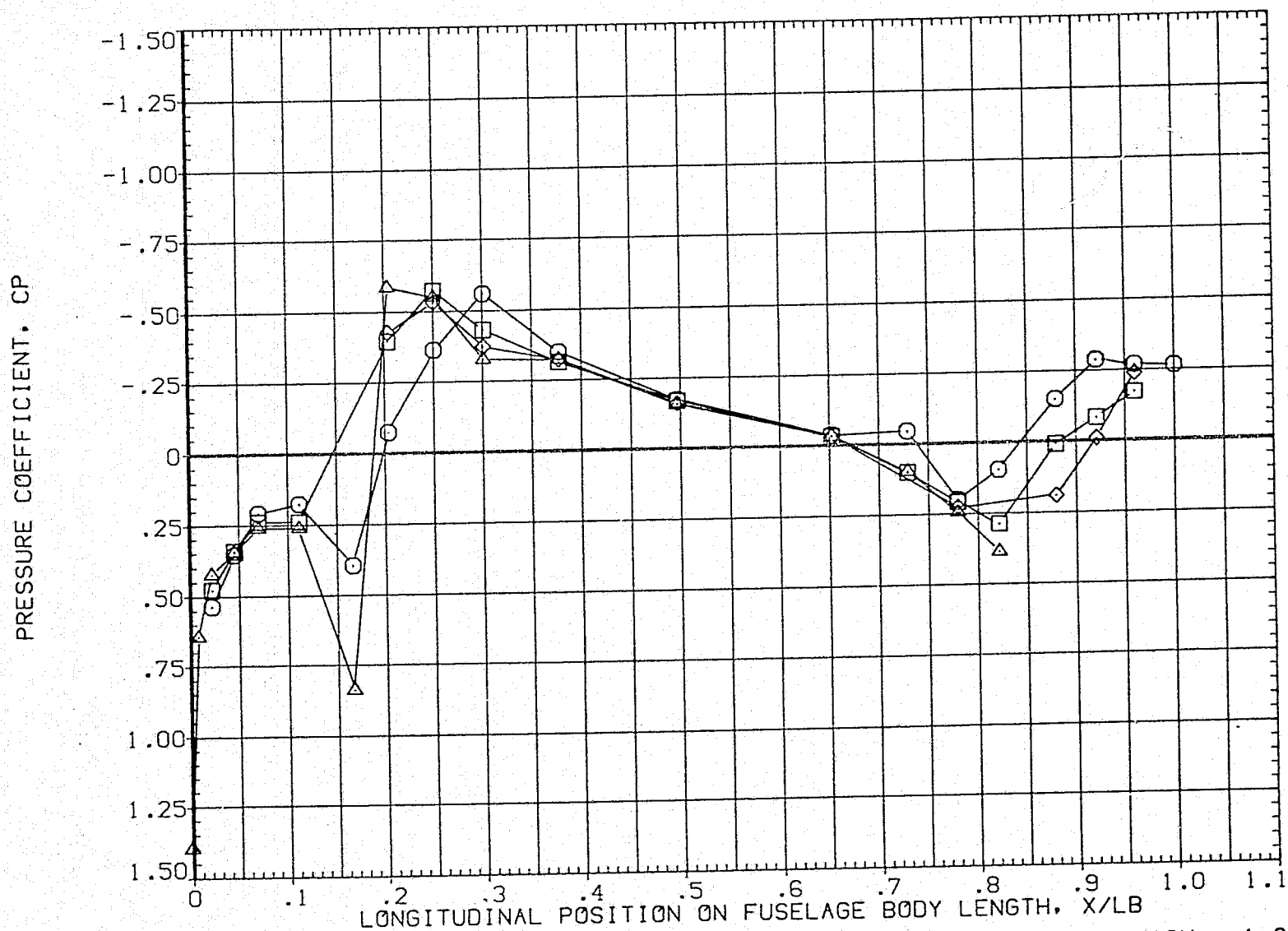


FIG. 55 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK =0, MACH = 1.25

SYMBOL	PHI	BETA0	ALPHA0
○	.000	4.000	4.000
□	40.000		
◇	70.000		
△	90.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

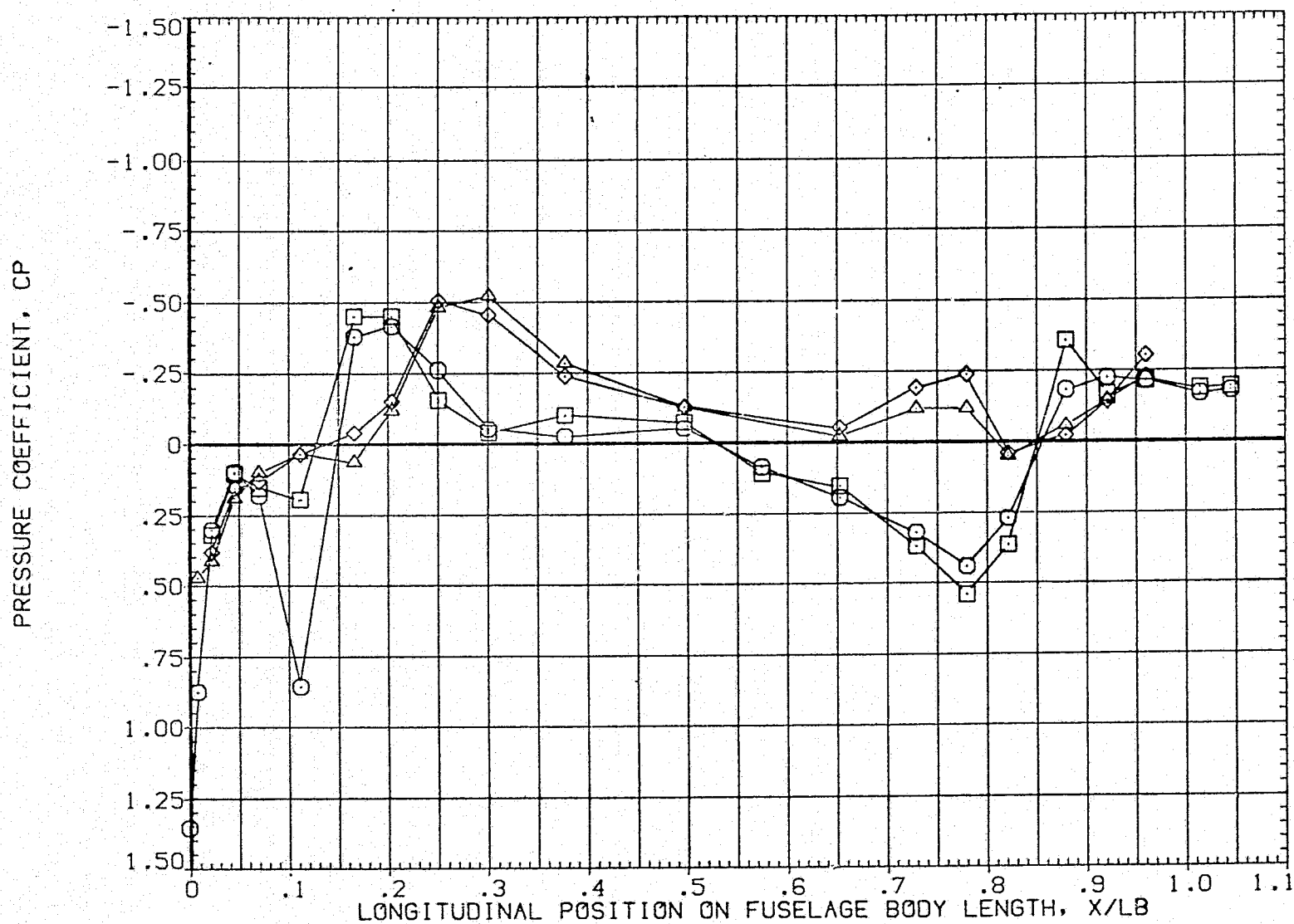


FIG. 55 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

ARC11-019 IA81 LVAP(ELHL SEALED) ORB. FUSELAGE (IETB11)

SYMBOL	PHI	BETA0	ALPHA0
○	120.000	4.000	4.000
□	150.000		
◇	165.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

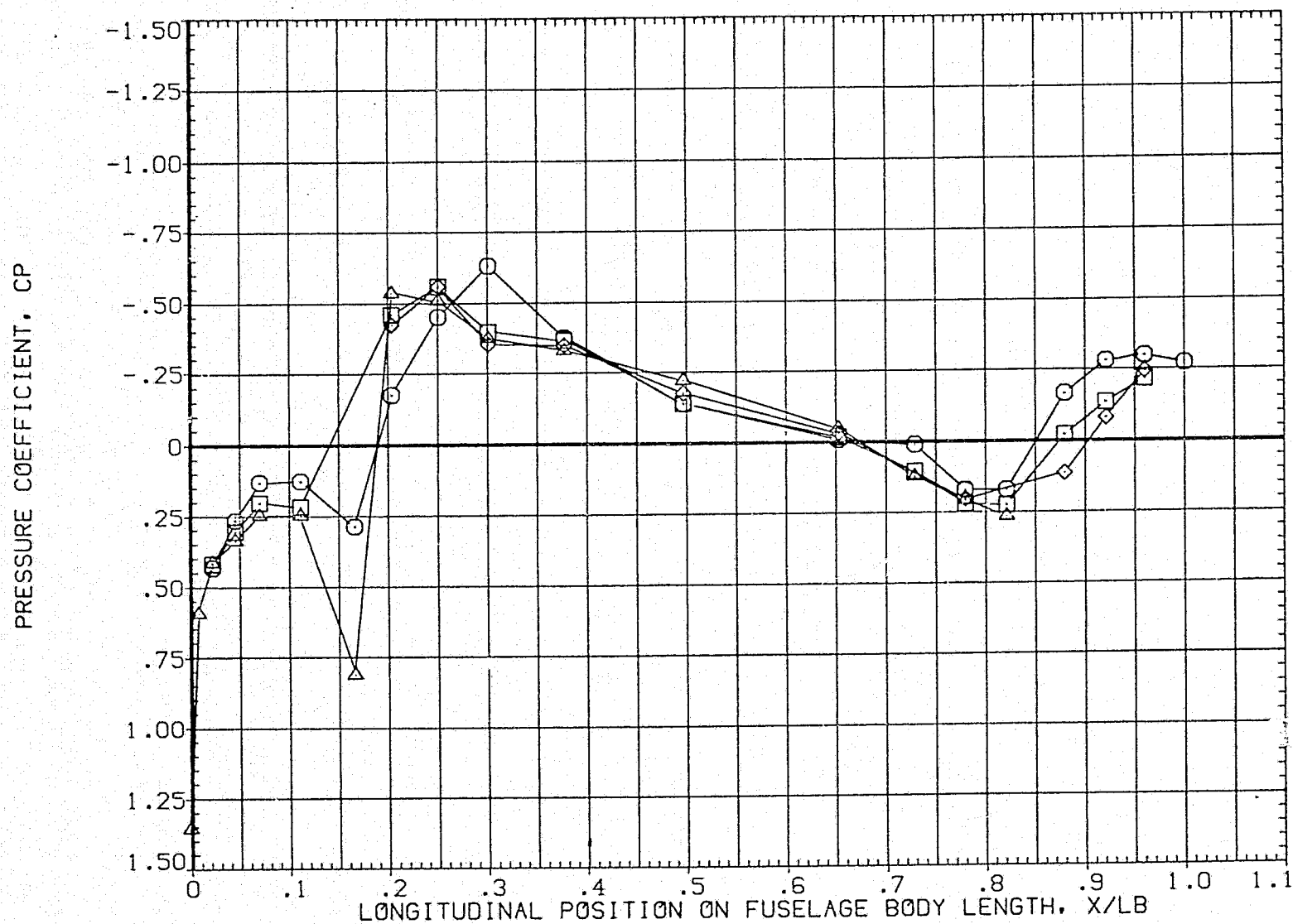


FIG. 55 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

SYMBOL	PHI	BETA0	ALPHA0
○	.000	-4.000	-4.000
□	40.000		
◇	70.000		
△	90.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-18	8.000	ELV-08	.000
RUDDER	.000	SPDBRK	.000

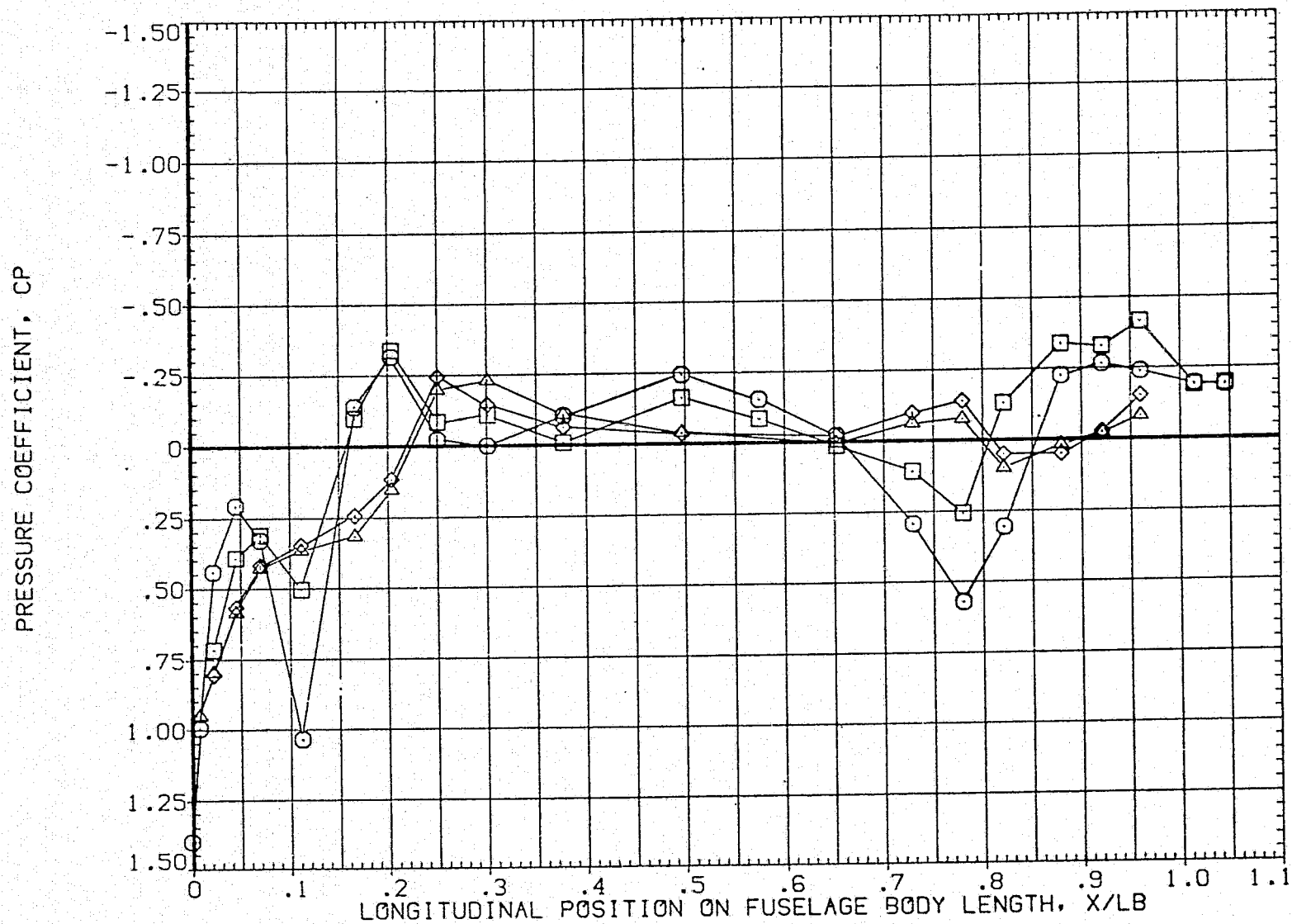


FIG. 56 FUSELAGE LONG. PRESSURE DIST. ELEVON 1/0 = 8/0, SPDBRK = 0, MACH = 1.4

ARC11-019 IA81 LVAP(ELHL SEALED) ORB. FUSELAGE (IETB12)

SYMBOL	PHI	BETA0	ALPHA0
○	120.000	-4.000	-4.000
□	150.000		
◇	165.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-1B	8.000	ELV-0B	.000
RUDDER	.000	SPDBRK	.000

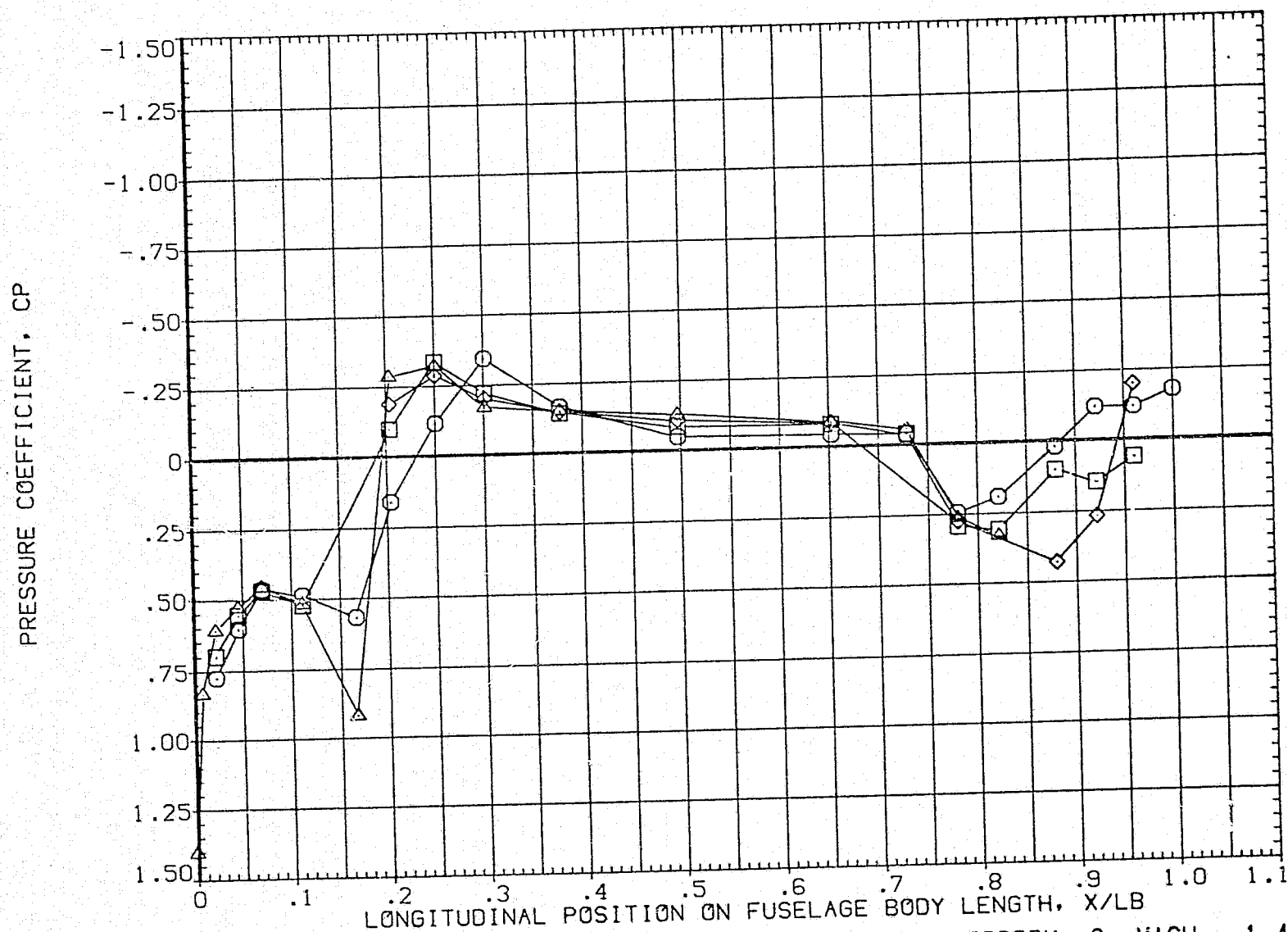


FIG. 56 FUSELAGE LONG. PRESSURE DIST. ELEVON 1/0 = 8/0, SPDBRK = 0, MACH = 1.4

SYMBOL	PHI	BETA0	ALPHA0
○	.000	.000	-4.000
□	40.000		
◇	70.000		
△	90.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-1B	8.000	ELV-0B	.000
RUDDER	.000	SPDBRK	.000

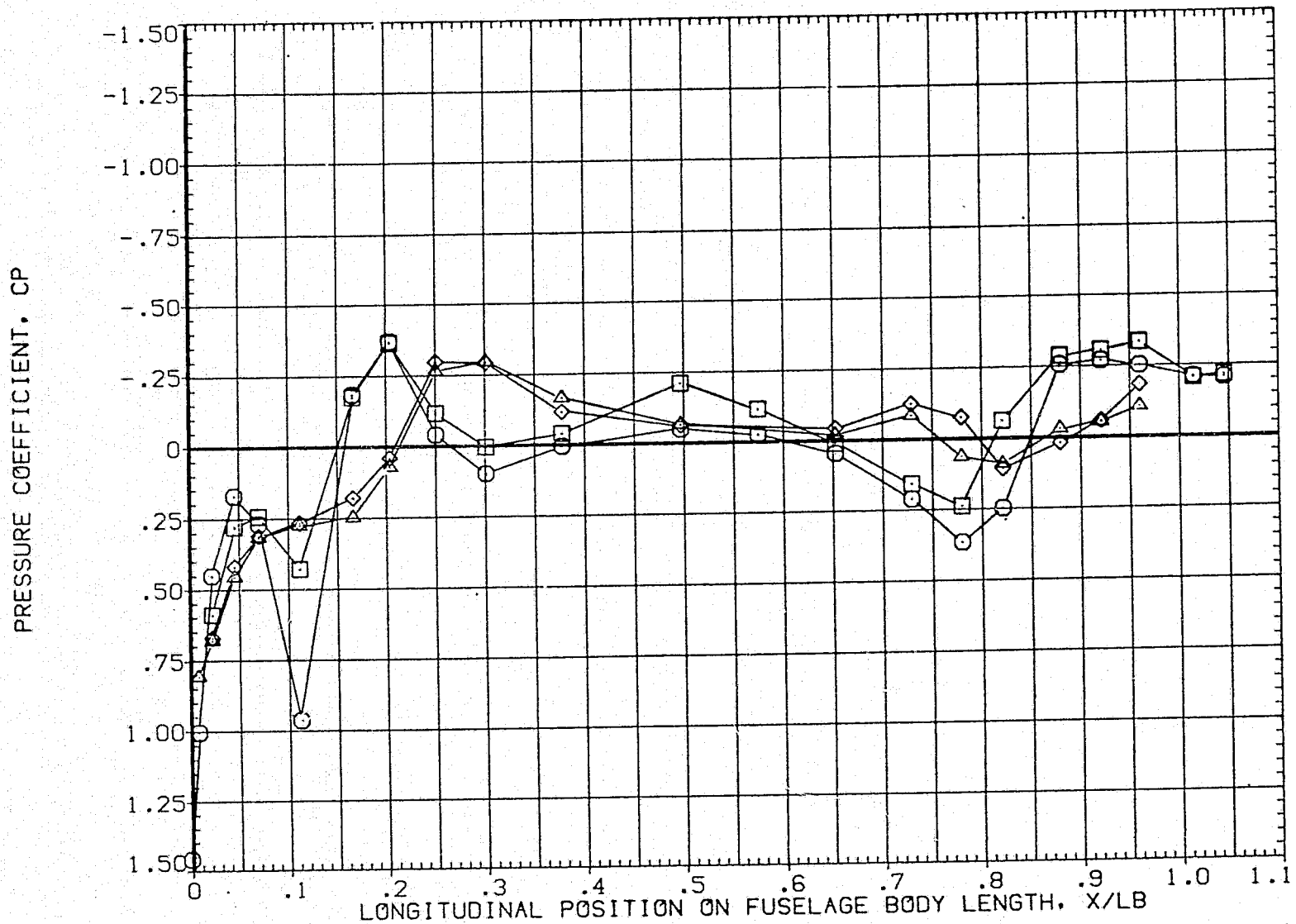


FIG. 56 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/0, SPDBRK = 0, MACH = 1.4

ARC11-019 IA81 LVAP(ELHL SEALED) ORB. FUSELAGE (IETB12)

SYMBOL	PHI	BETA0	ALPHA0
○	120.000	.000	-4.000
□	150.000		
◇	165.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-18	8.000	ELV-08	.000
RUDDER	.000	SPDBRK	.000

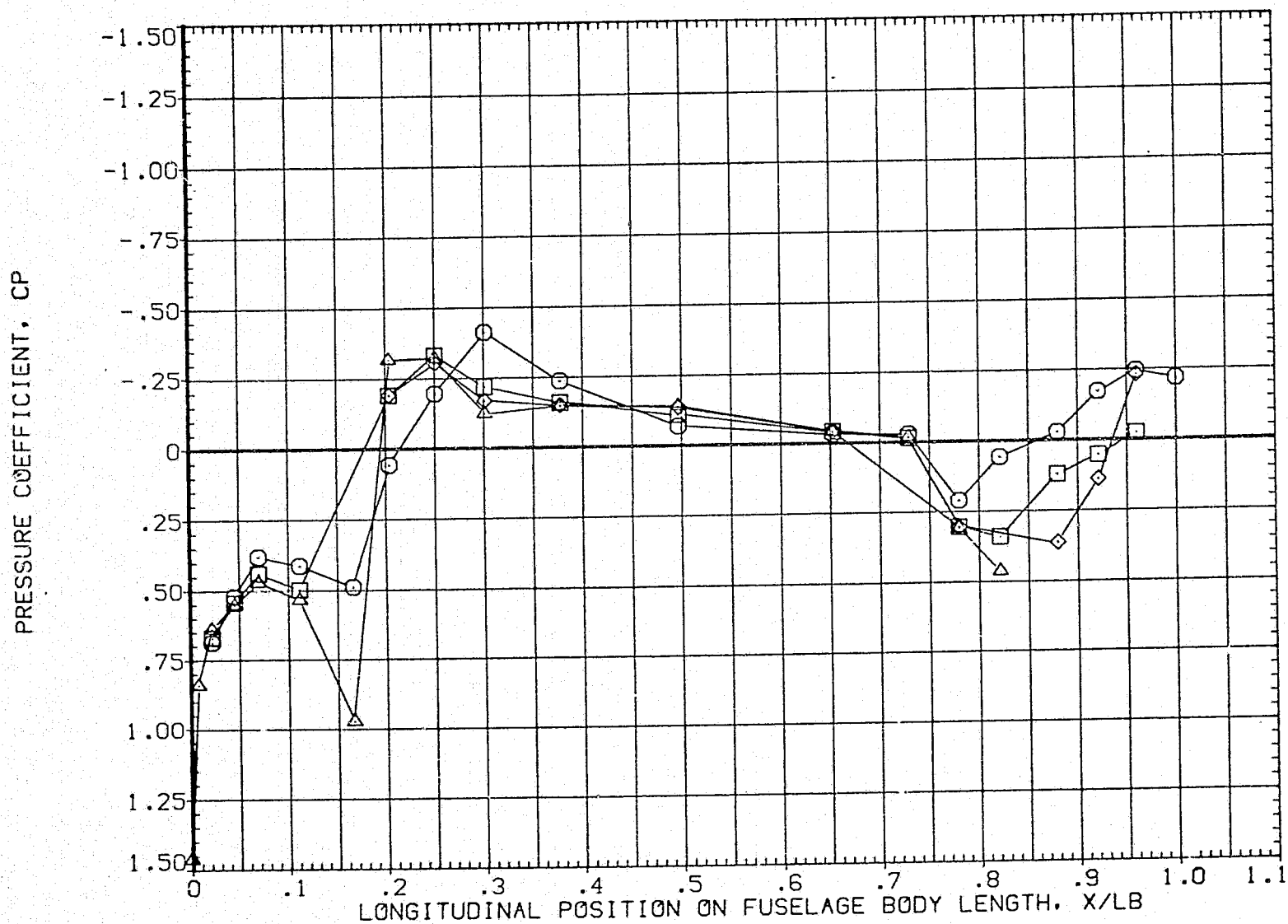


FIG. 56 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/0, SPDBRK = 0, MACH = 1.4

SYMBOL	PHI	BETA θ	ALPHA θ
○	.000	4.000	-4.000
□	40.000		
◇	70.000		
△	90.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-IB	8.000	ELV-OB	.000
RUDDER	.000	SPDBRK	.000

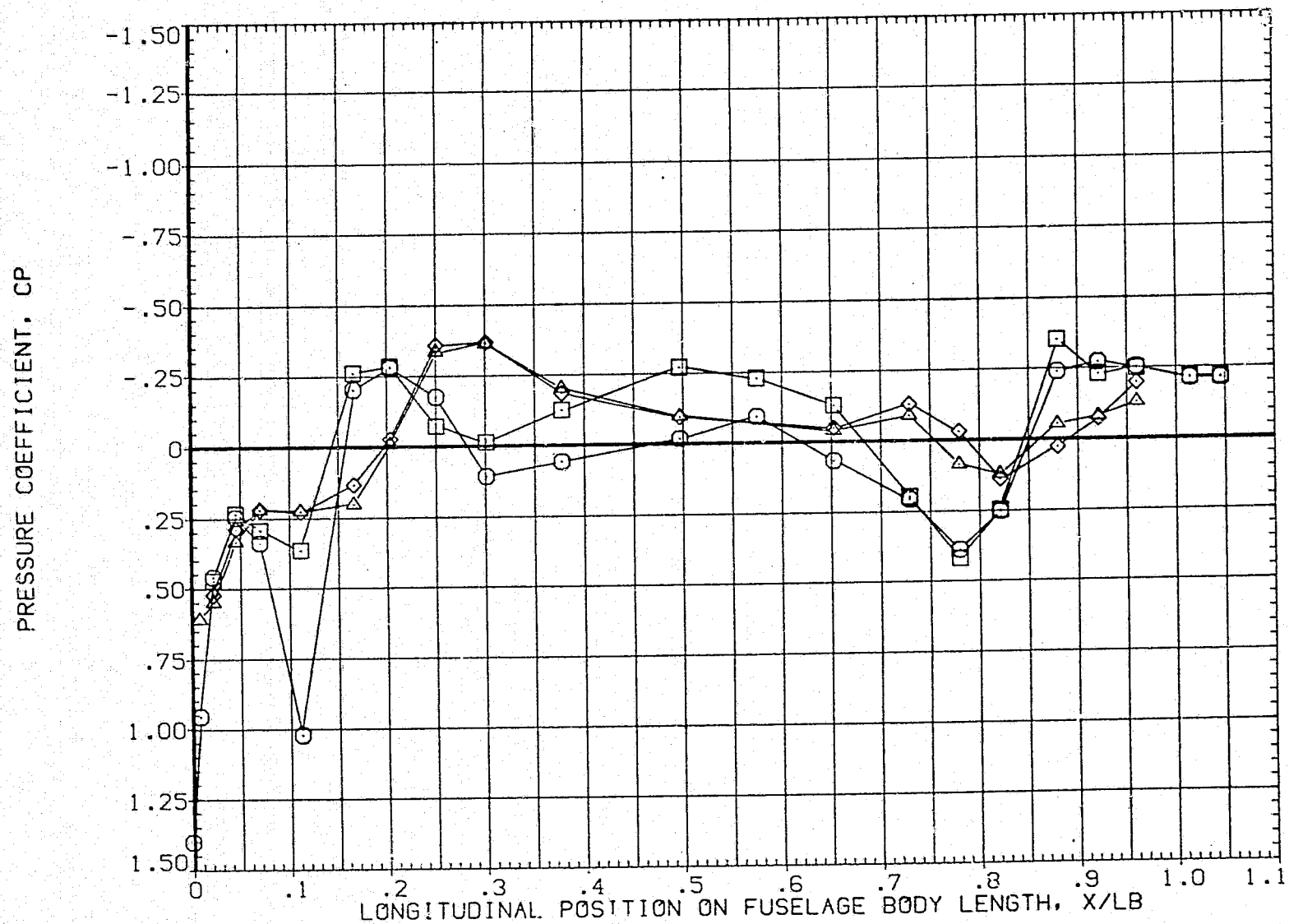


FIG. 56 FUSELAGE LONG. PRESSURE DIST. ELEVON 1/0 = 8/0, SPDBRK = 0, MACH = 1.4

ARC11-019 1A81 LVAP(ELHL SEALED) ORB. FUSELAGE (IETB12)

SYMBOL	PHI	BETA0	ALPHA0
○	120.000	4.000	-4.000
□	150.000		
◇	165.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-1B	8.000	ELV-0B	.000
RUDDER	.000	SPDBRK	.000

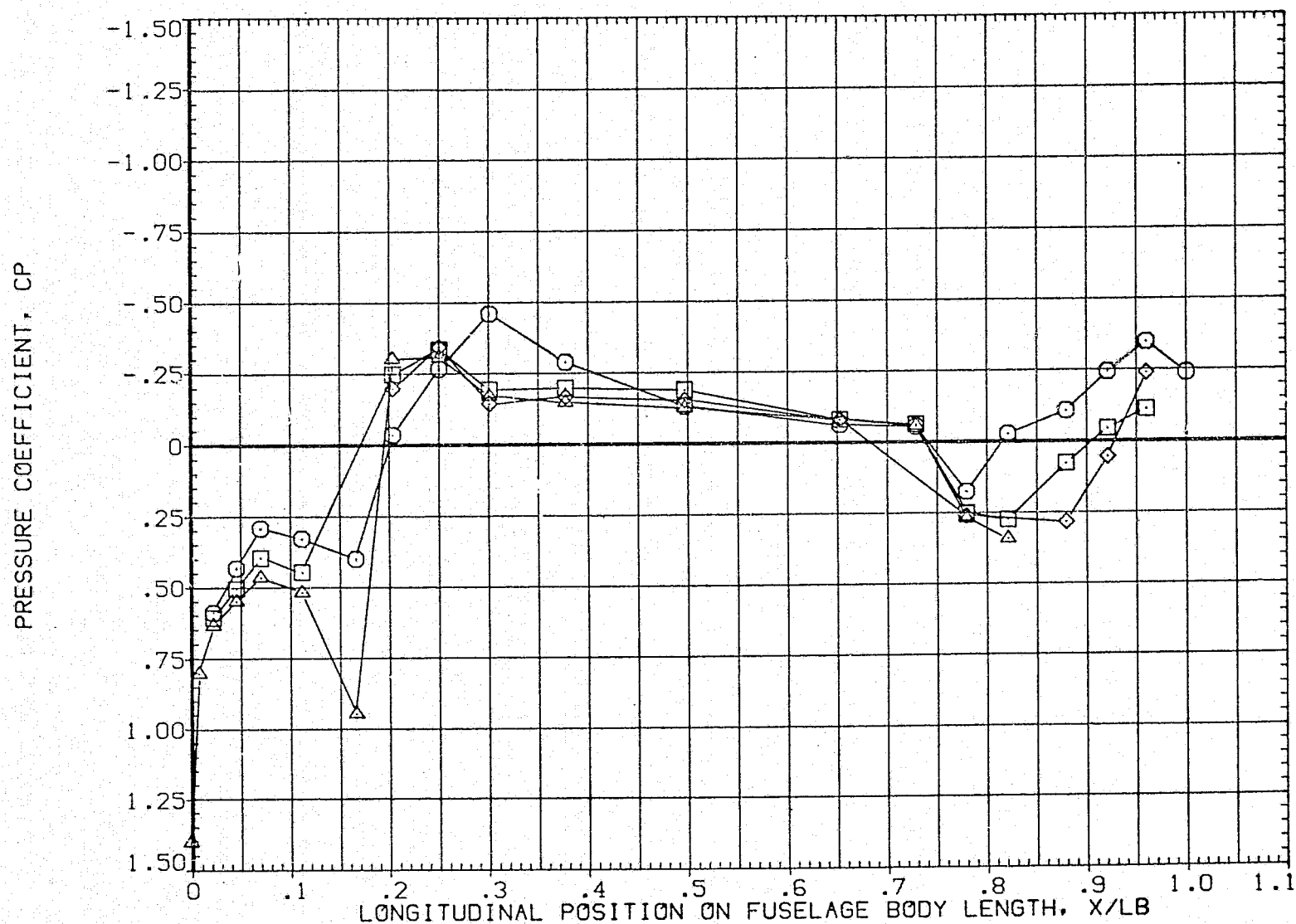


FIG. 56 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/O, SPDBRK =0, MACH = 1.4

SYMBOL	PHI	BETAO	ALPHA0
○	.000	-4.000	.000
□	40.000		
◇	70.000		
△	90.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-1B	8.000	ELV-0B	.000
RUDDER	.000	SPDBRK	.000

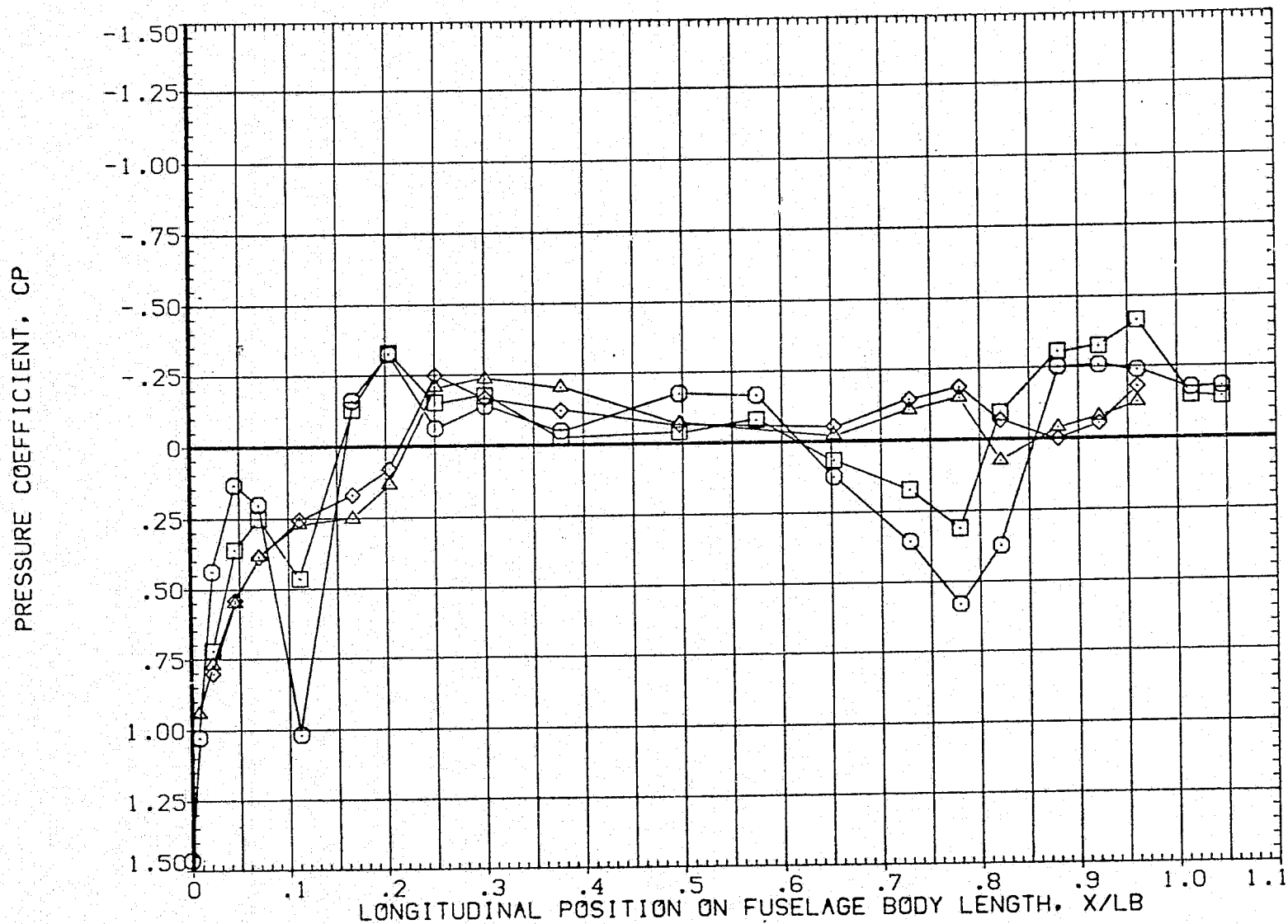


FIG. 56 FUSELAGE LONG. PRESSURE DIST. ELEVON 1/0 = 8/0, SPDBRK = 0, MACH = 1.4

ARC11-019 1A81 LVAP(ELHL SEALED) ORB. FUSELAGE (IETB12)

SYMBOL	PHI	BETA θ	ALPHA θ
○	120.000	-4.000	.000
□	150.000		
◇	165.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-1B	8.000	ELV-OB	.000
RUDDER	.000	SPDBRK	.000

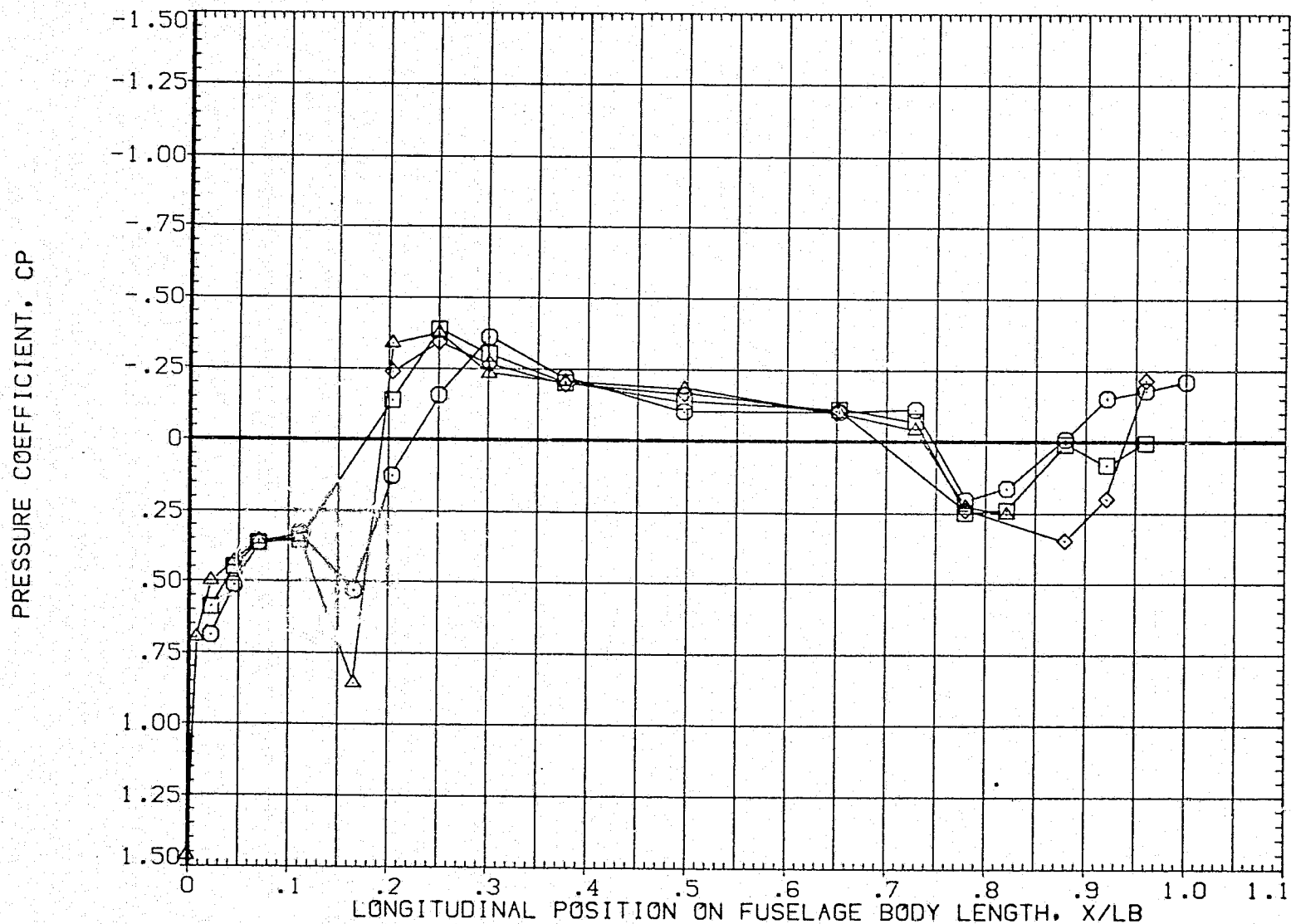


FIG. 56 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/O, SPDBRK = 0, MACH = 1.4

SYMBOL	PHI	BETA0	ALPHA0
○	.000	.000	.000
□	40.000		
◇	70.000		
△	90.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-1B	8.000	ELV-0B	.000
RUDDER	.000	SPDBRK	.000

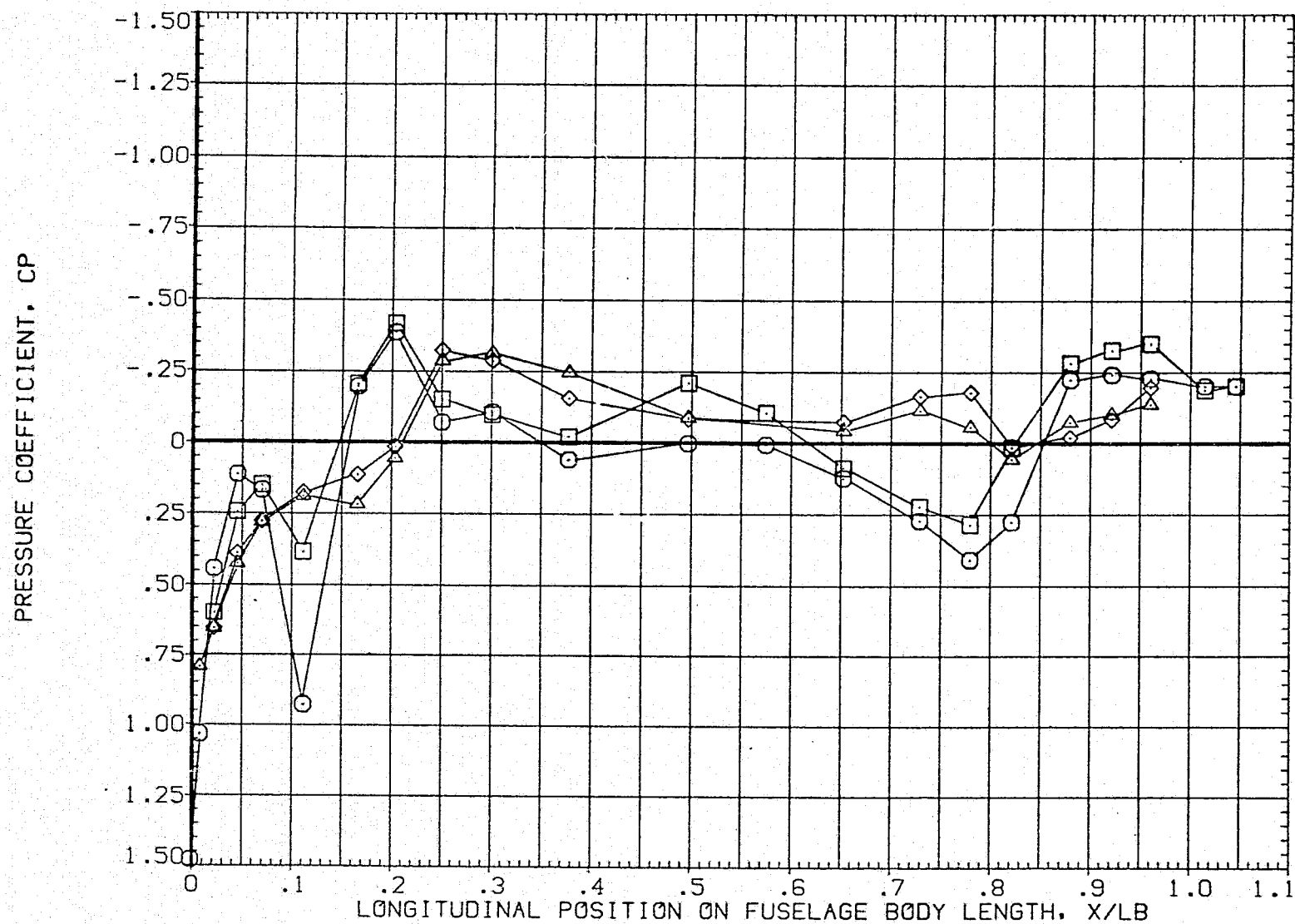


FIG. 56 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/O, SPDBRK = 0, MACH = 1.4

ARC11-019 IA81 LVAP(ELHL SEALED) ORB. FUSELAGE (IETB12)

SYMBOL	PHI	BETA0	ALPHA0
○	120.000	.000	.000
□	150.000		
◇	165.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-18	8.000	ELV-08	.000
RUDDER	.000	SPDBRK	.000

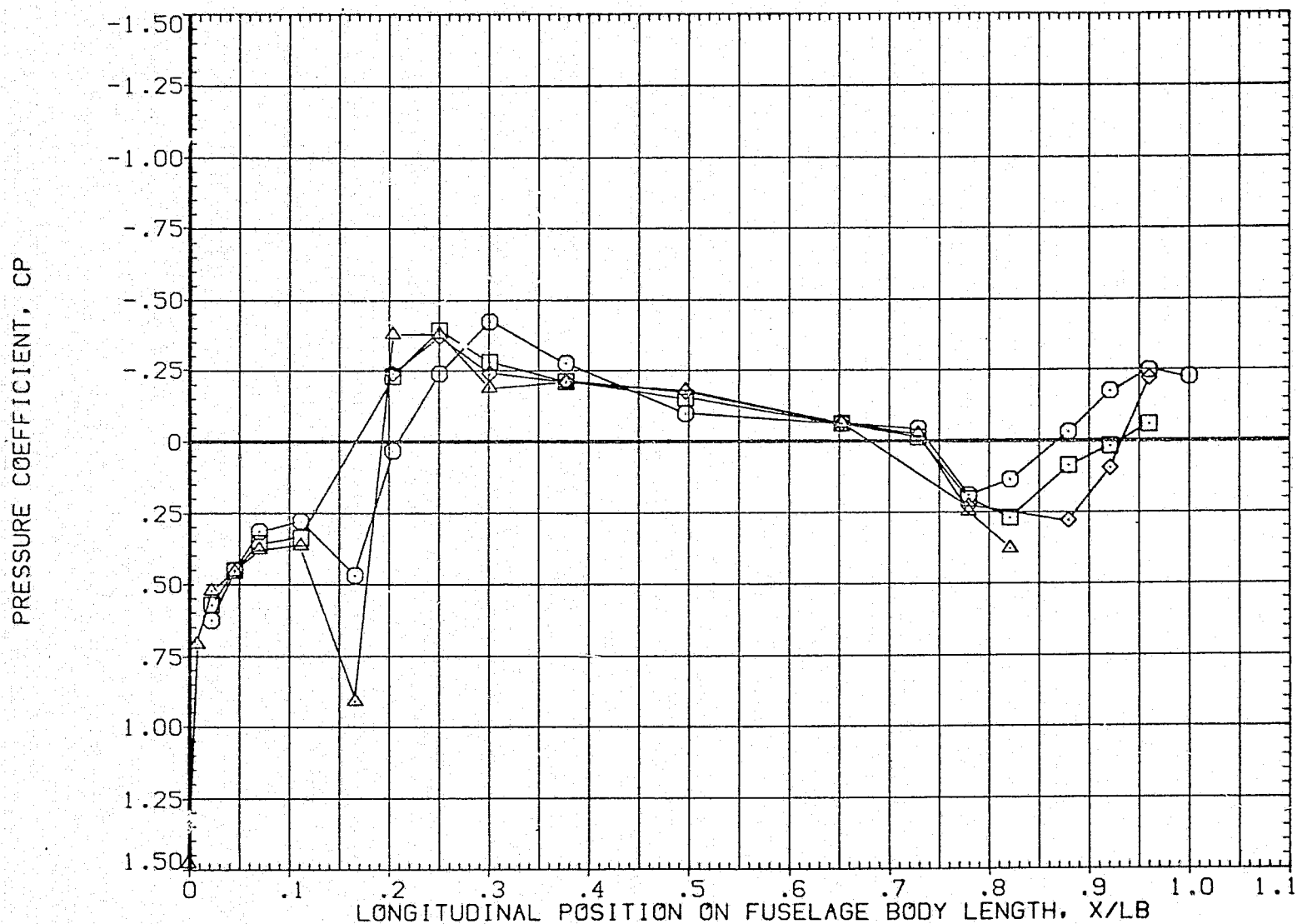


FIG. 56 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/0, SPDBRK = 0, MACH = 1.4

ARC11-019 IA81 LVAP(ELHL SEALED) ORB. FUSELAGE (IETB12)

SYMBOL	PHI	BETA0	ALPHA0
○	.000	4.000	.000
□	40.000		
◇	70.000		
△	90.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-IB	8.000	ELV-OB	.000
RUDDER	.000	SPDBRK	.000

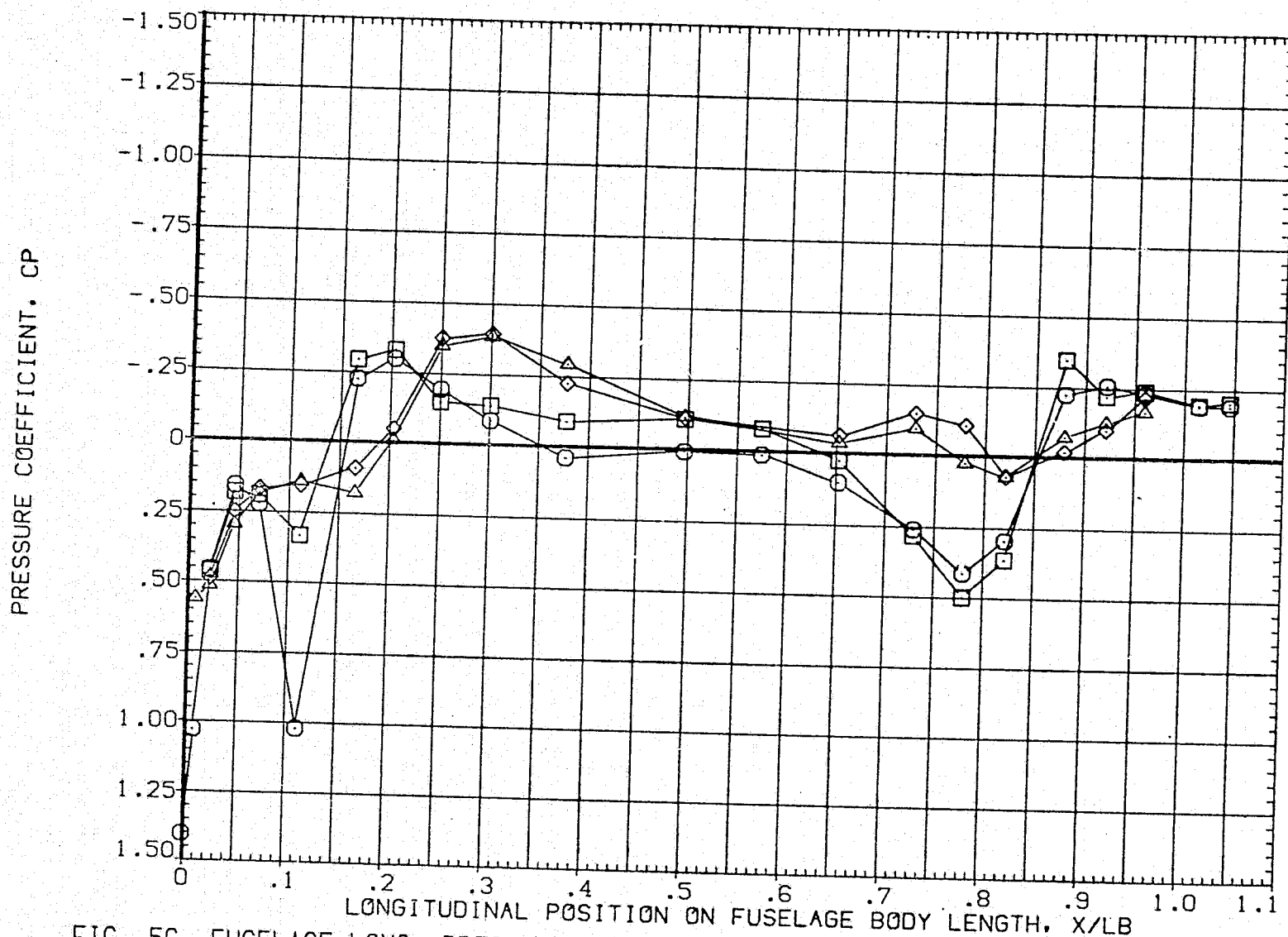


FIG. 56 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/O, SPDBRK = 0, MACH = 1.4

ARC11-019 1A81 LVAP(ELHL SEALED) ORB. FUSELAGE (IETB12)

SYMBOL	PHI	BETA0	ALPHA0
○	120.000	4.000	.000
□	150.000		
◇	165.000		
△	180.000		

PARAMETRIC VALUES	MACH	1.400	RN/FT	2.250
ELV-1B	8.000	ELV-0B	.000	
RUDDER	.000	SPDBRK	.000	

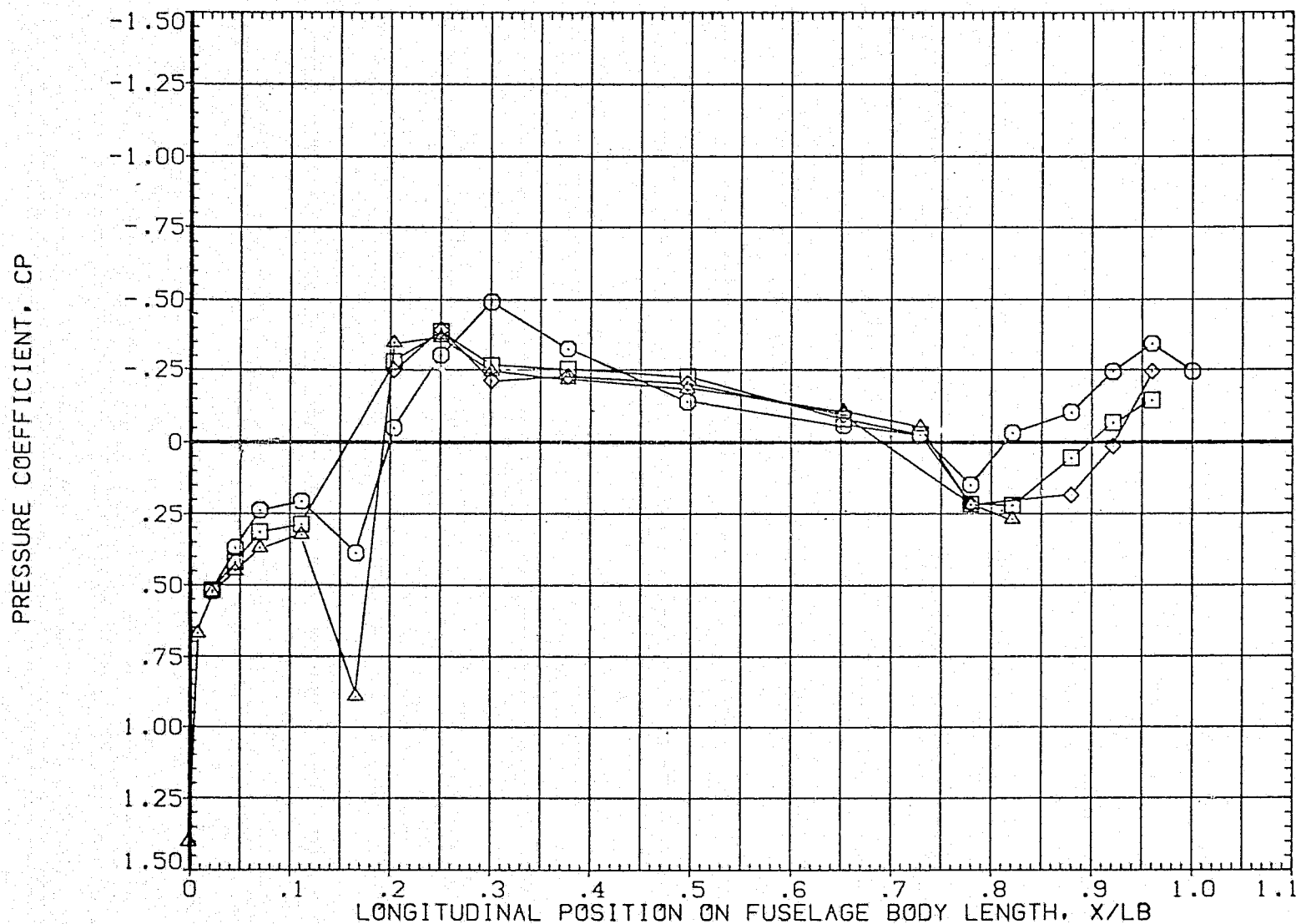


FIG. 56 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/0, SPDBRK = 0, MACH = 1.4

ARC11-019 IA81 LVAP(ELHL SEALED) ORB. FUSELAGE (IETB12)

SYMBOL	PHI	BETA0	ALPHA0
○	.000	-4.000	4.000
□	40.000		
◇	70.000		
△	90.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-18	8.000	ELV-08	.000
RUDDER	.000	SPDBRK	.000

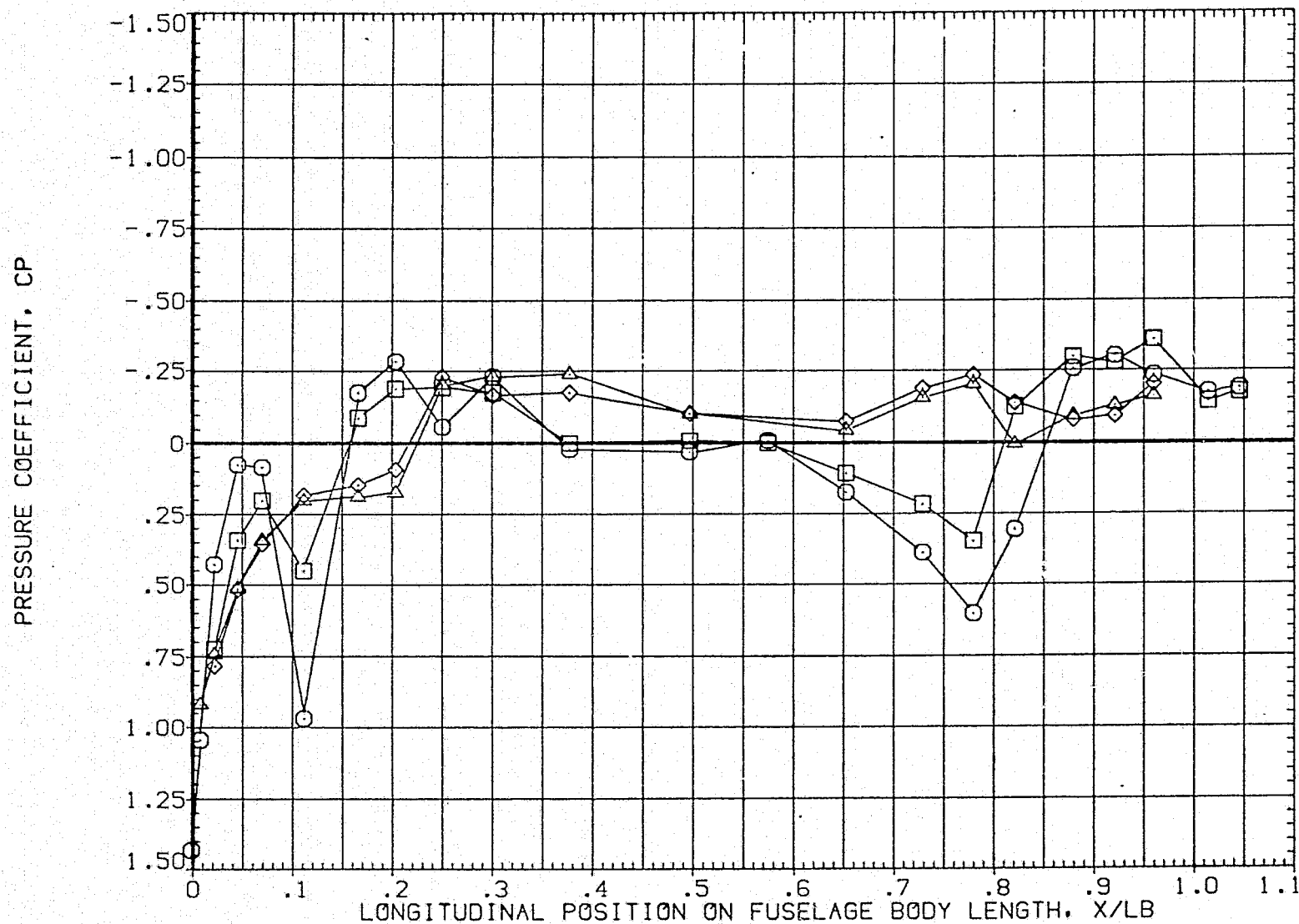


FIG. 56 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/O, SPDBRK =0, MACH = 1.4

ARC11-019 1A81 LVAP(ELHL SEALED) ORB. FUSELAGE (IETB12)

SYMBOL	PHI	BETA0	ALPHA0
○	120.000	-4.000	4.000
□	150.000		
◇	165.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-1B	8.000	ELV-03	.000
RUDDER	.000	SPDBRK	.000

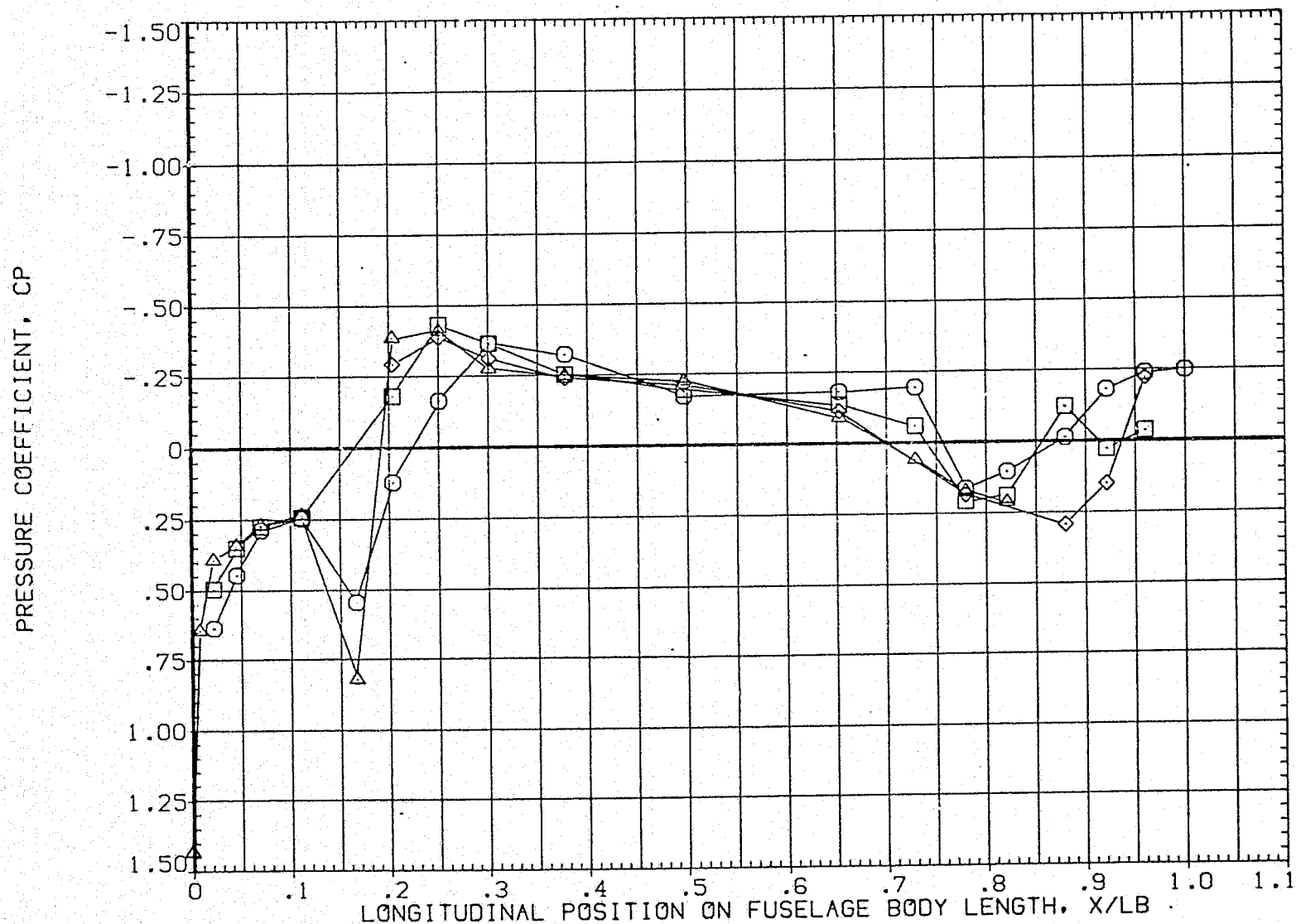


FIG. 56 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/O, SPDBRK = 0, MACH = 1.4

SYMBOL	PHI	BETA0	ALPHA0
○	.000	.000	4.000
□	40.000		
◇	70.000		
△	90.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-18	3.000	ELV-08	.000
RUDDER	.000	SPDBRK	.000

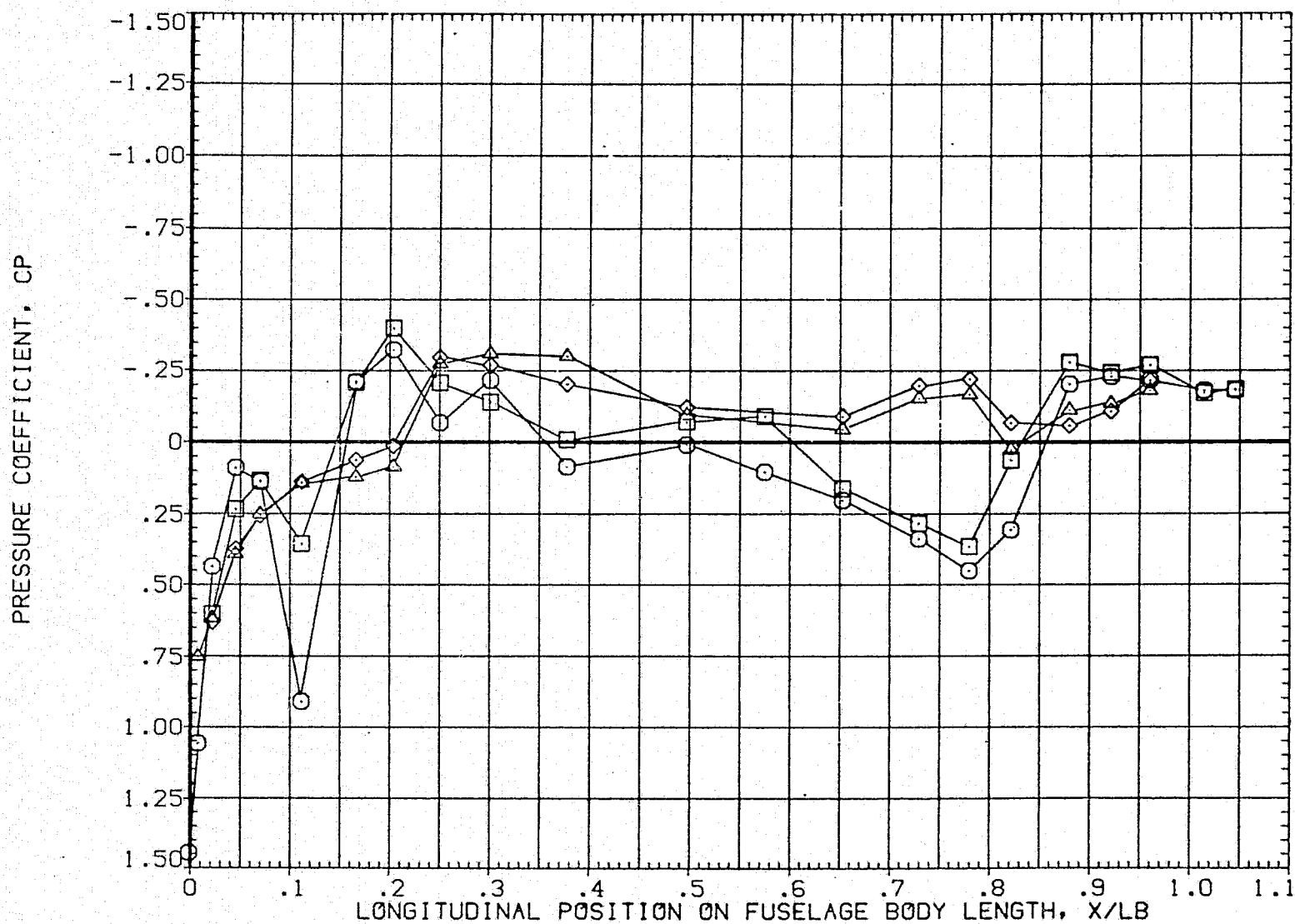


FIG. 56 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/0, SPDBRK = 0, MACH = 1.4

ARC11-019 IA81 LVAP(ELHL SEALED) ORB. FUSELAGE (IETB12)

SYMBOL	PHI	BETA0	ALPHA0	MACH	1.400	RN/FT	2.250
○	120.000	.000	4.000	ELV-1B	8.000	ELV-0B	.000
□	150.000			RUDDER	.000	SPDBRK	.000
◇	165.000						
△	180.000						

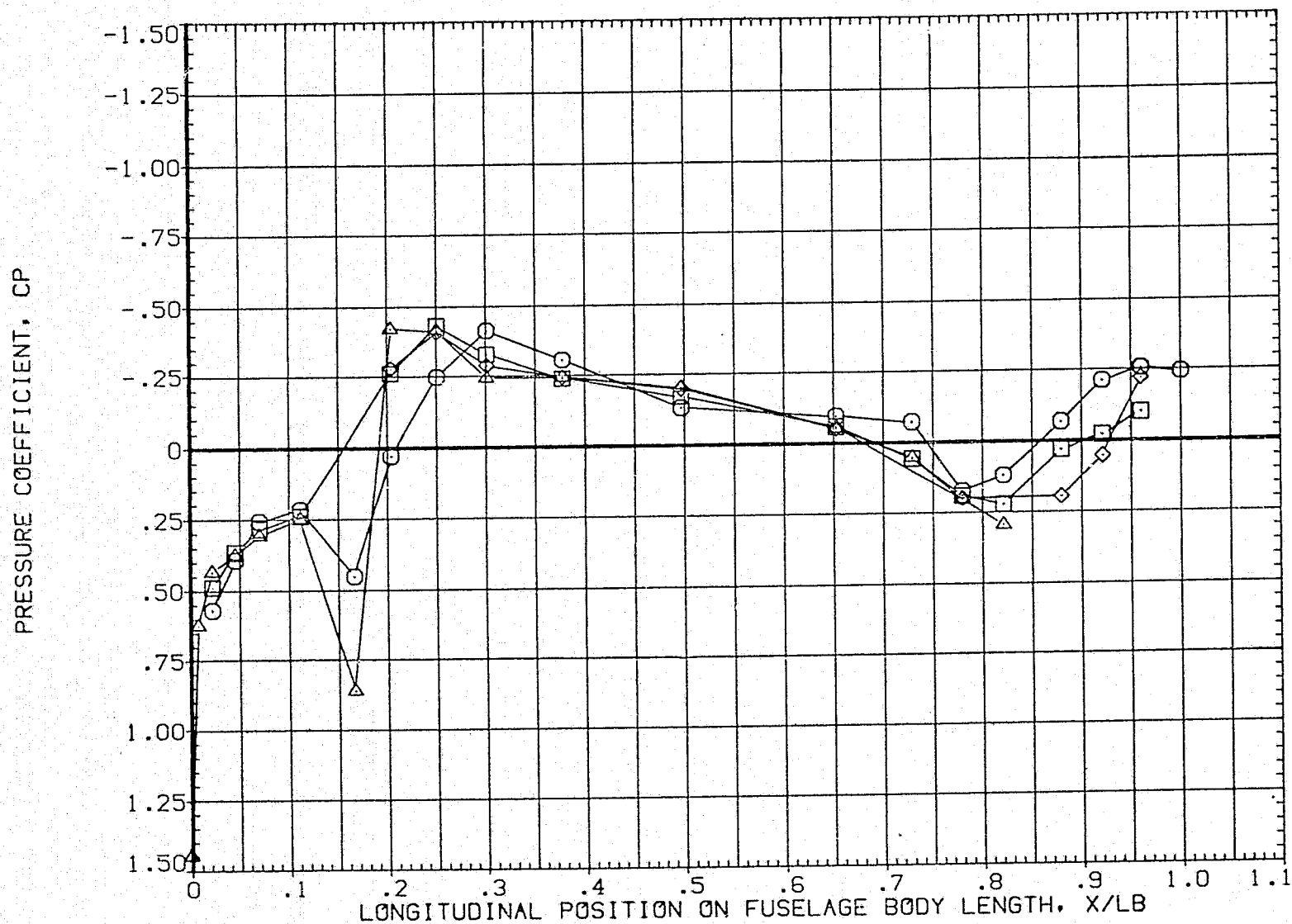


FIG. 56 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/O, SPDBRK = 0, MACH = 1.4

ARC11-019 IA81 LVAP(ELHL SEALED) ORB. FUSELAGE (IETB12)

SYMBOL	PHI	BETA0	ALPHA0
○	.000	4.000	4.000
□	40.000		
◇	70.000		
△	90.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-18	8.000	ELV-08	.000
RUDDER	.000	SPDBRK	.000

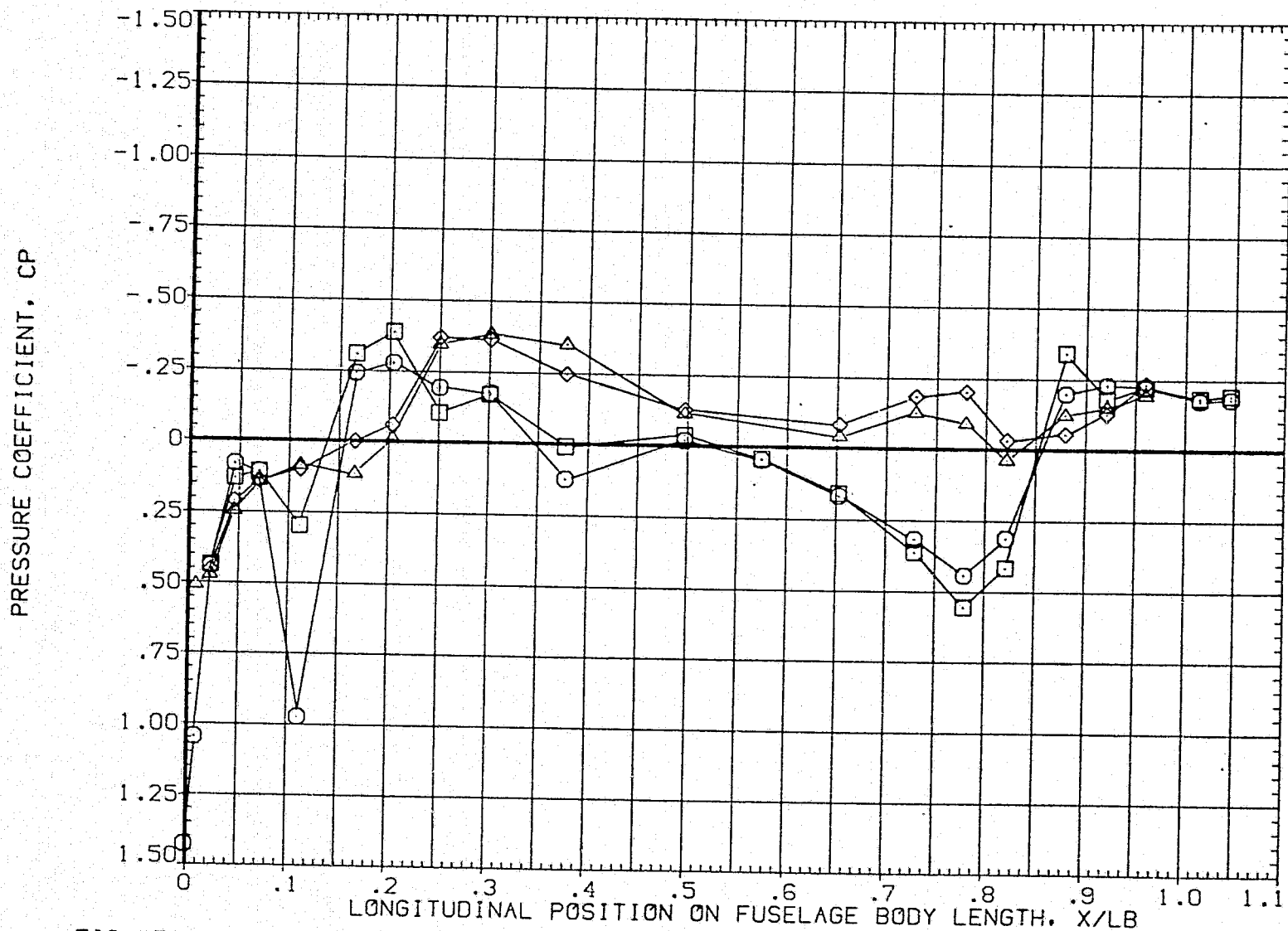


FIG. 56 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/O, SPDBRK = 0, MACH = 1.4

ARC11-019 IA81 LVAP(ELHL SEALED) ORB. FUSELAGE (IETB12)

SYMBOL	PHI	BETA0	ALPHA0
○	120.000	4.000	4.000
□	150.000		
◇	165.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-IB	8.000	ELV-OB	.000
RUDDER	.000	SPDBRK	.000

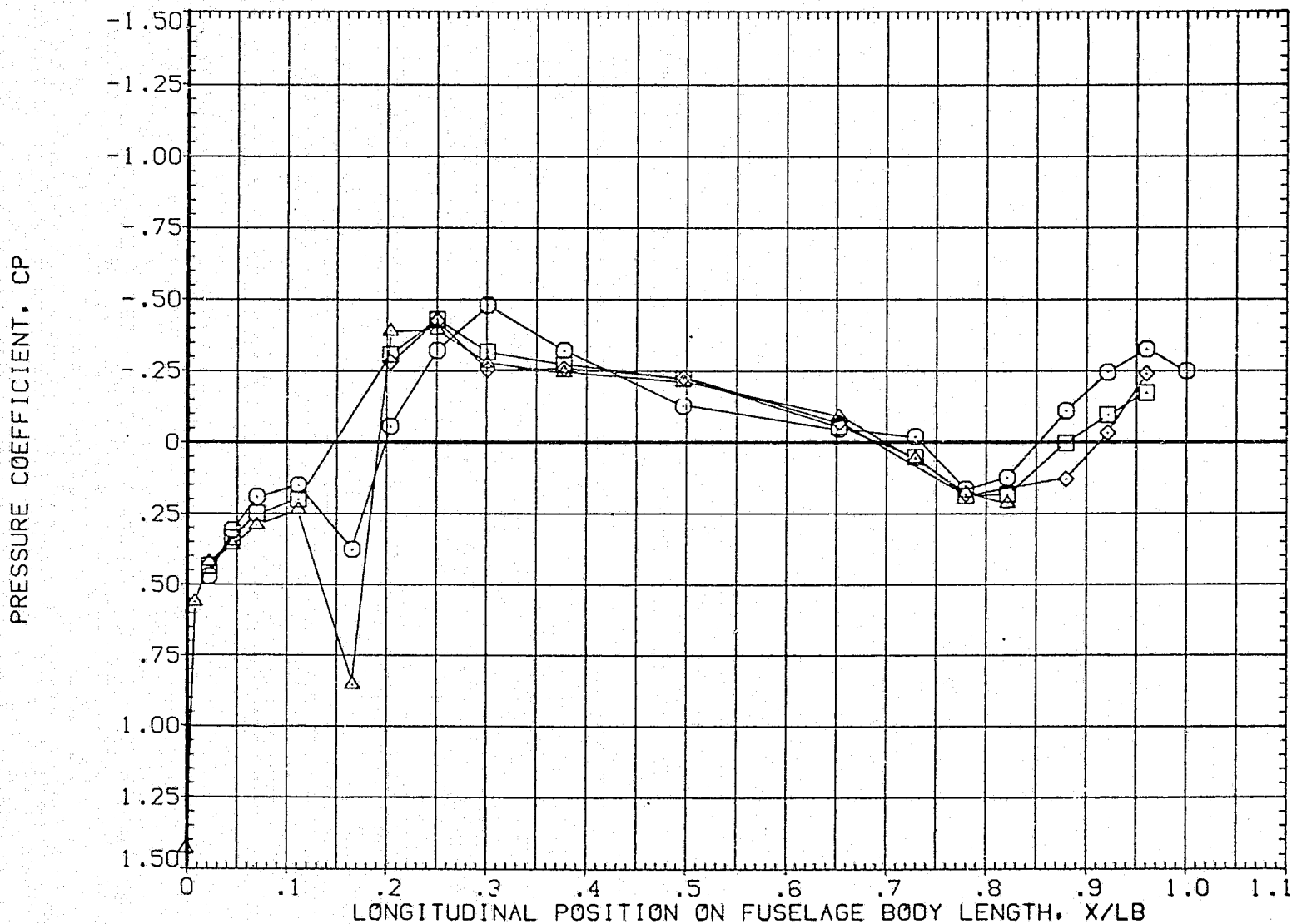


FIG. 56 FUSELAGE LONG. PRESSURE DIST. ELEVON I/O = 8/0, SPDBRK = 0, MACH = 1.4

SYMBOL	PHI	BETAT	ALPHAT
○	.000	-4.000	-4.000
□	30.000		
◇	60.000		
△	90.000		
▽	120.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

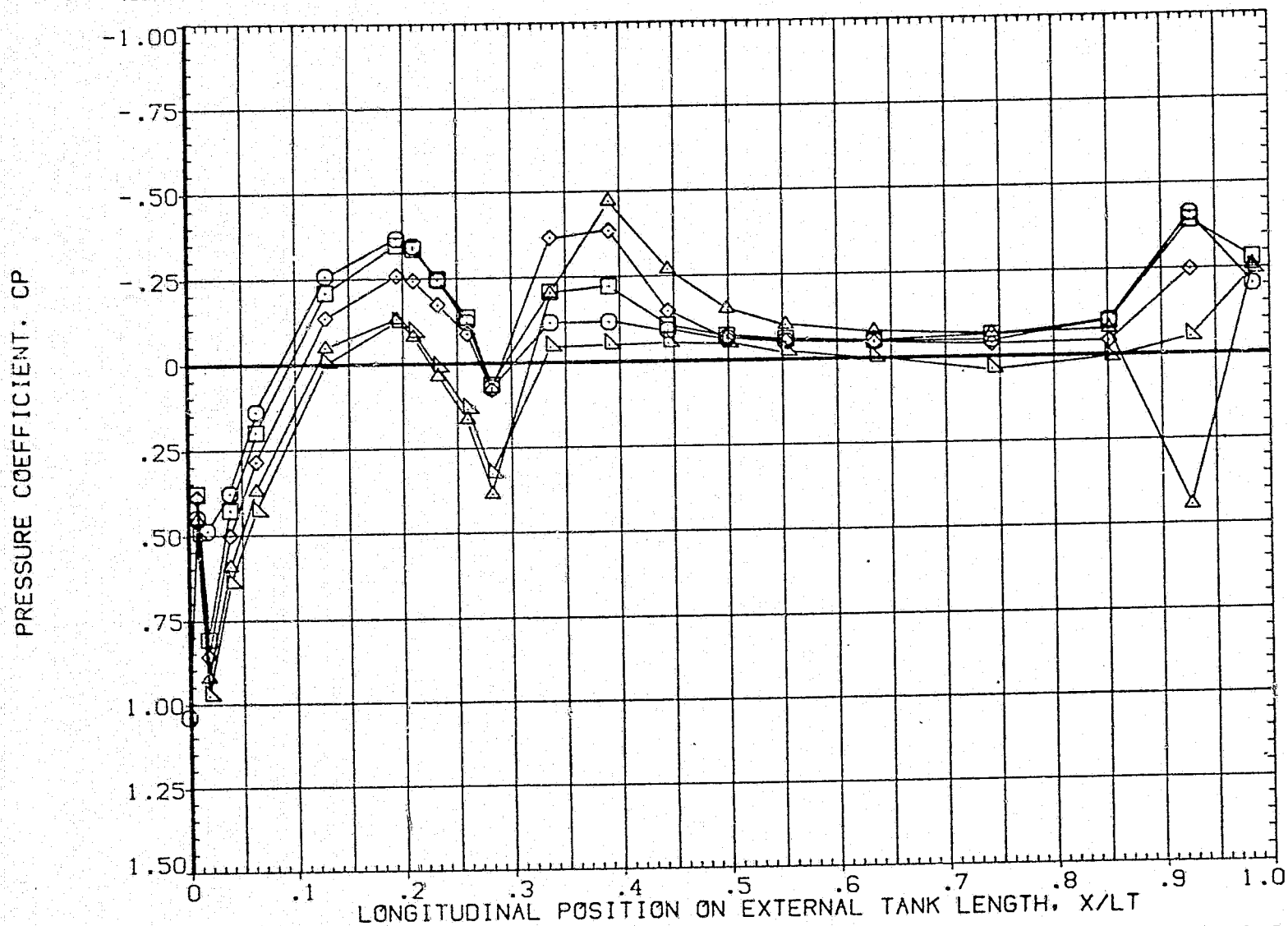


FIG. 57 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

ARC11-019 1A81 LVAP(ELHL UNSEALD) EXTERNAL TANK (IETT06)

SYMBOL	PHI	BETAT	ALPHAT
○	135.000	-4.000	-4.000
□	147.000		
◇	162.000		
△	180.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

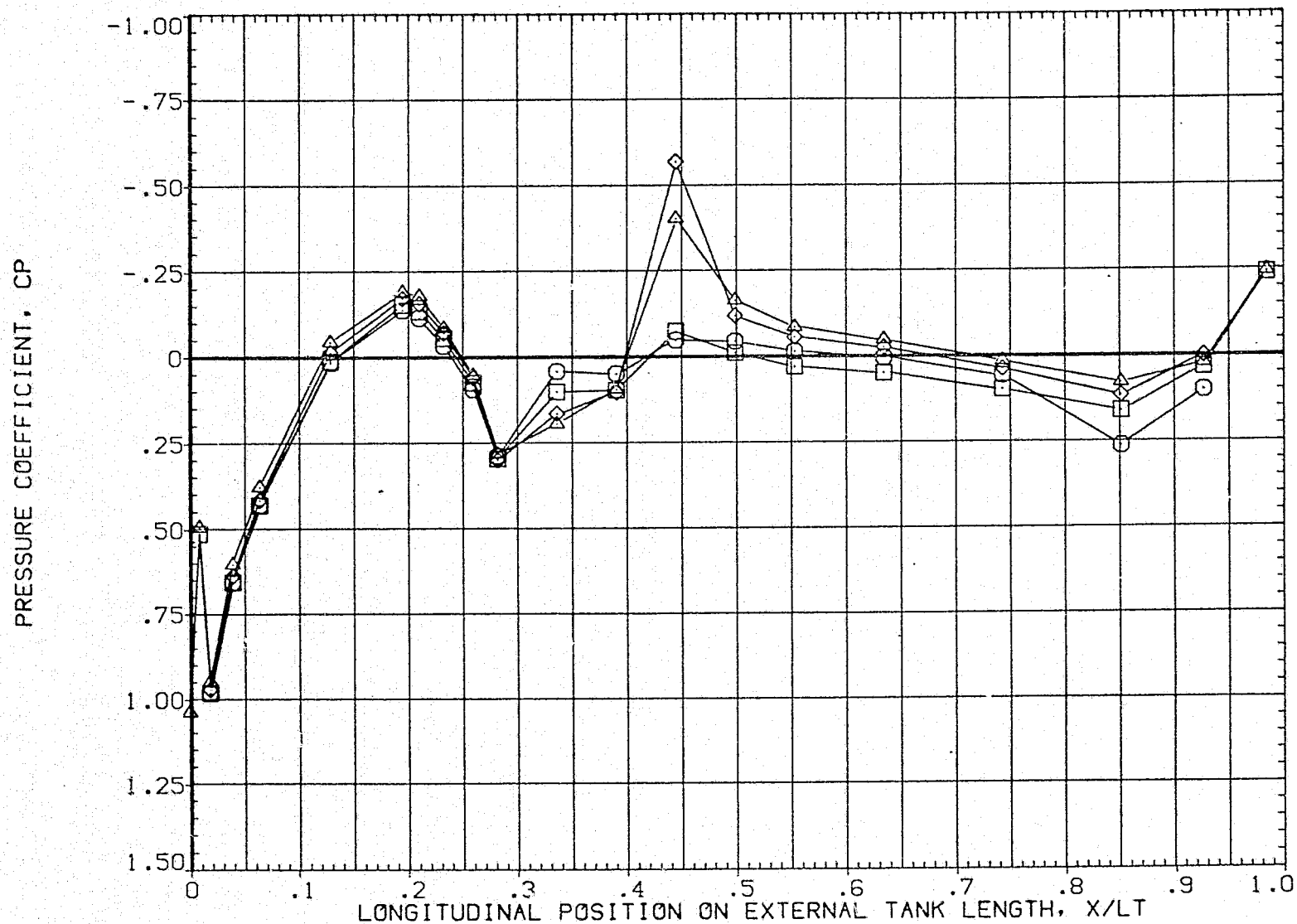


FIG. 57 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

ARC11-019 IA81 LVAP(ELHL UNSEALD) EXTERNAL TANK (IETT06)

SYMBOL	PHI	BETAT	ALPHAT
○	.000	.000	-4.000
□	30.000		
◇	60.000		
△	90.000		
▽	120.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

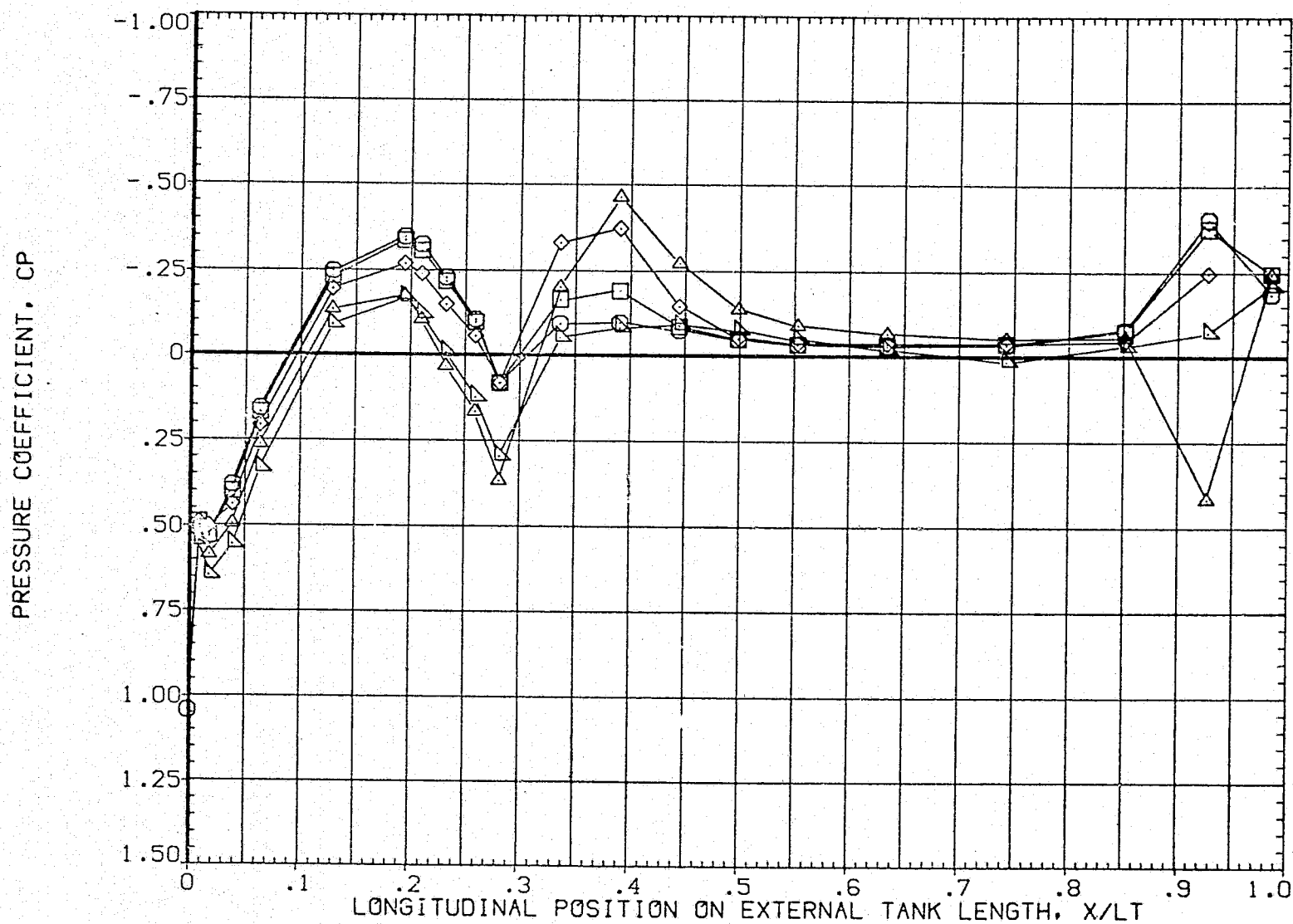


FIG. 57 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

ARC11-019 1A81 LVAP(ELHL UNSEALD) EXTERNAL TANK (IETT06)

SYMBOL	PHI	BETAT	ALPHAT
○	135.000	.000	-4.000
□	147.000		
◇	162.000		
△	180.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

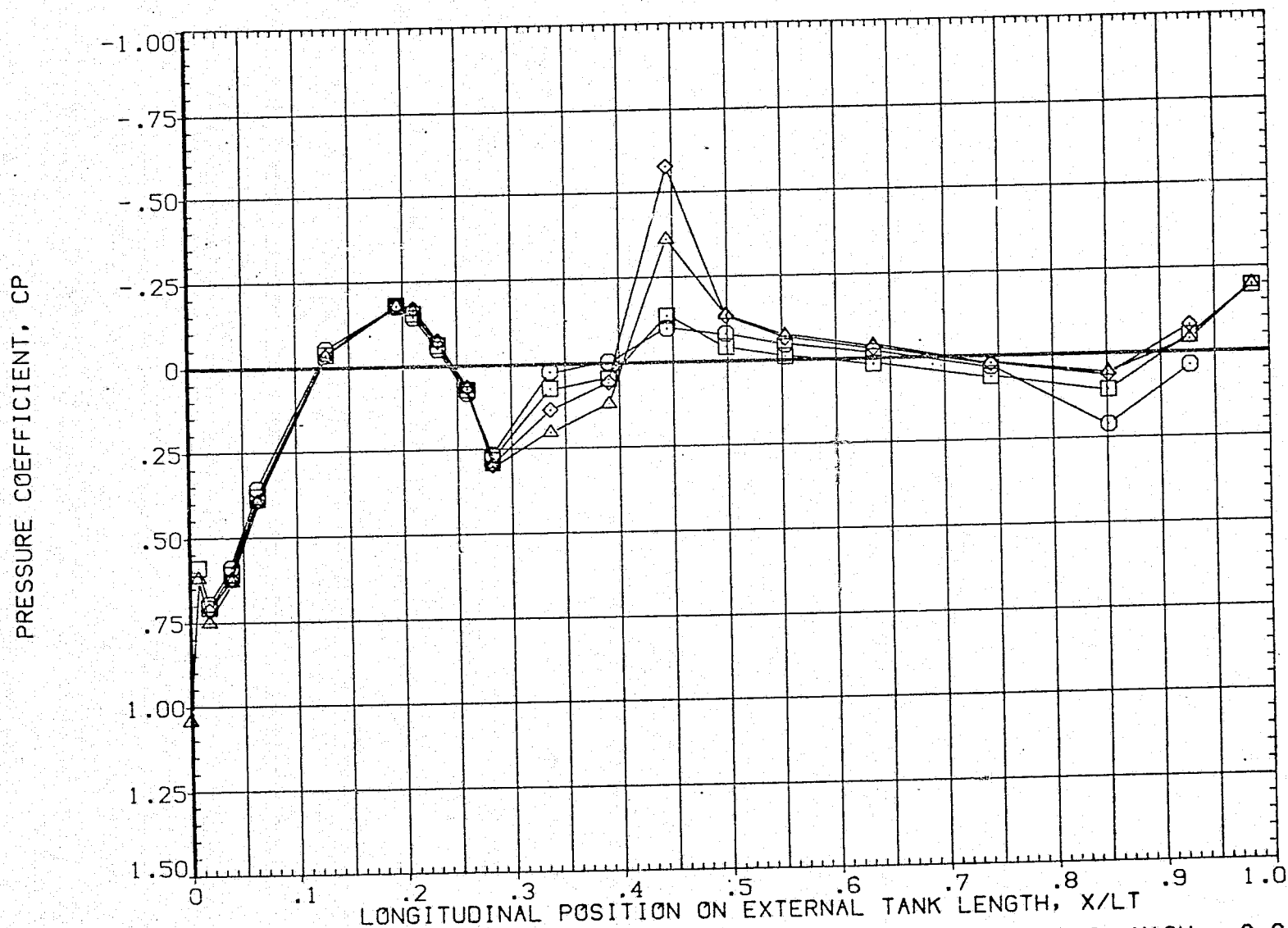


FIG. 57 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

ARC11-019 1A81 LVAP(ELHL UNSEALED) EXTERNAL TANK (IETT06)

SYMBOL	PHI	BETAT	ALPHAT
○	.000	4.000	-4.000
□	30.000		
◇	60.000		
△	90.000		
▽	120.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-1B	8.000	ELV-05	4.000
RUDDER	.000	SPOBRK	.000

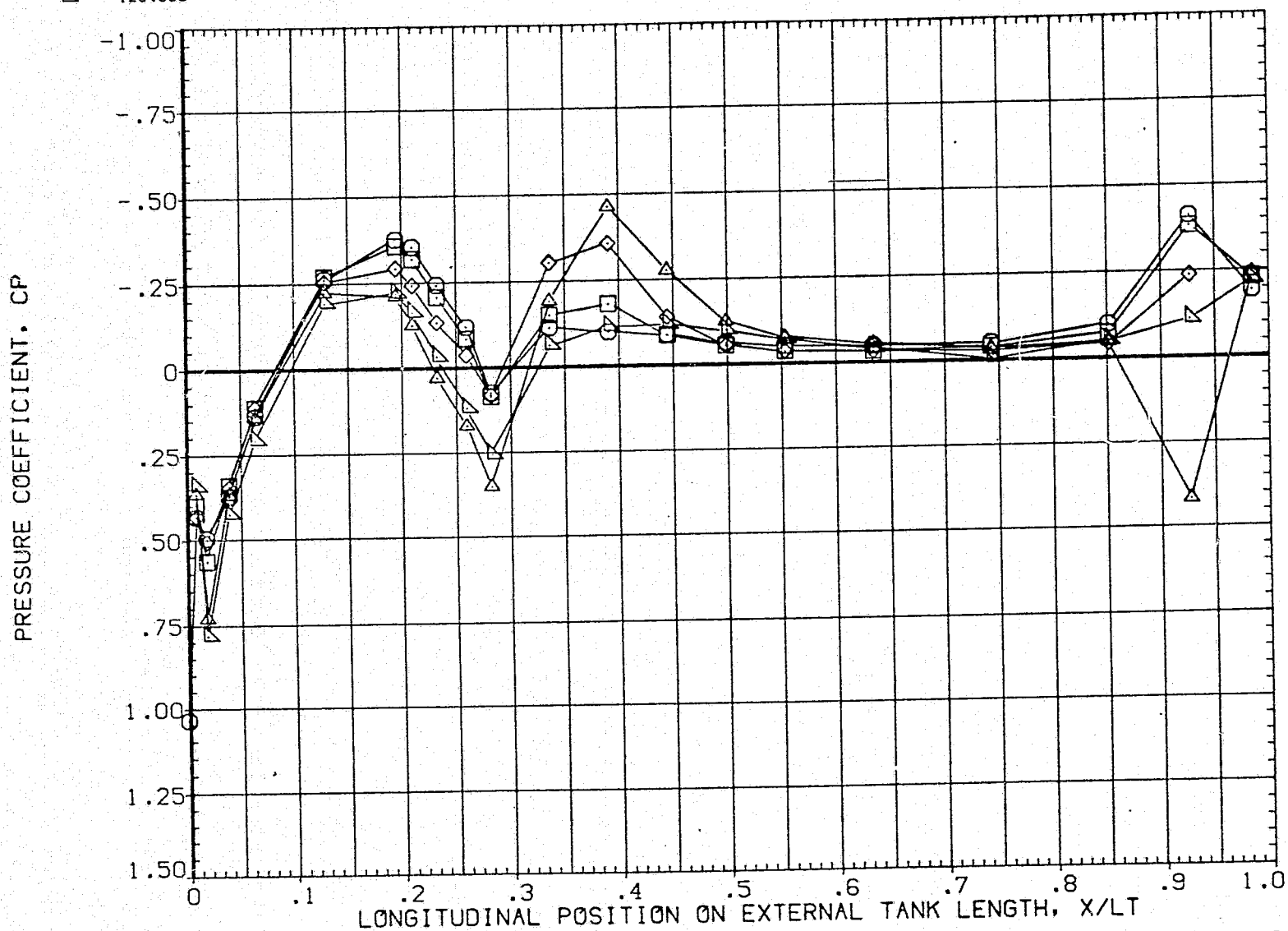


FIG. 57 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPOBRK = 0, MACH = 0.6

ARC11-019 IA81 LVAP(ELHL UNSEALED) EXTERNAL TANK (IETT06)

SYMBOL	PHI	BETAT	ALPHAT
○	135.000	4.000	-4.000
□	147.000		
◇	162.000		
△	180.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

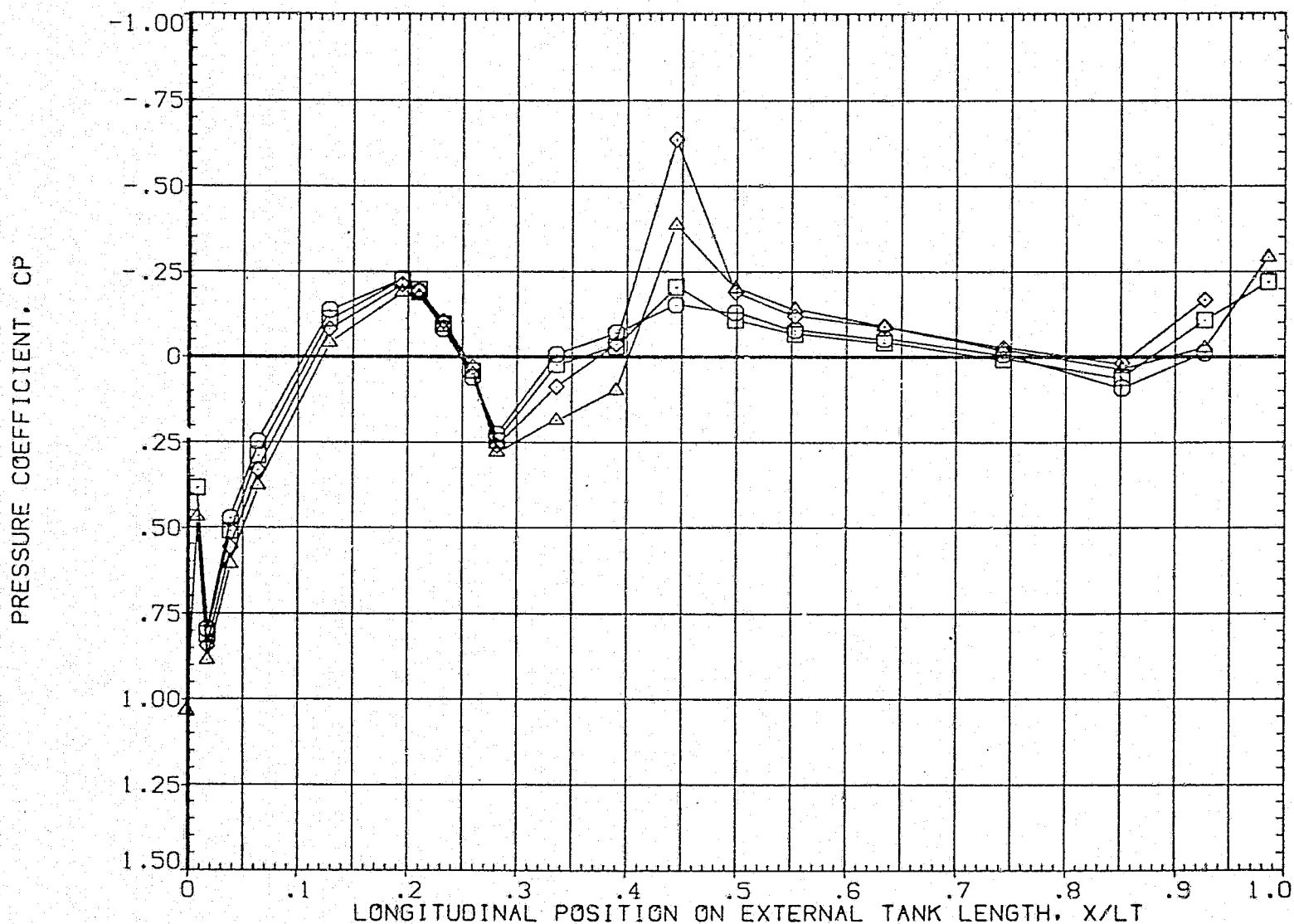


FIG. 57 EXT TANK LONG. PRESSURE DIST. ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 0.6

ARC11-019 1A81 LVAP(ELHL UNSEALD) EXTERNAL TANK (IETT06)

SYMBOL	PHI	BETAT	ALPHAT
○	.000	-4.000	.000
□	30.000		
◇	60.000		
△	90.000		
▽	120.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

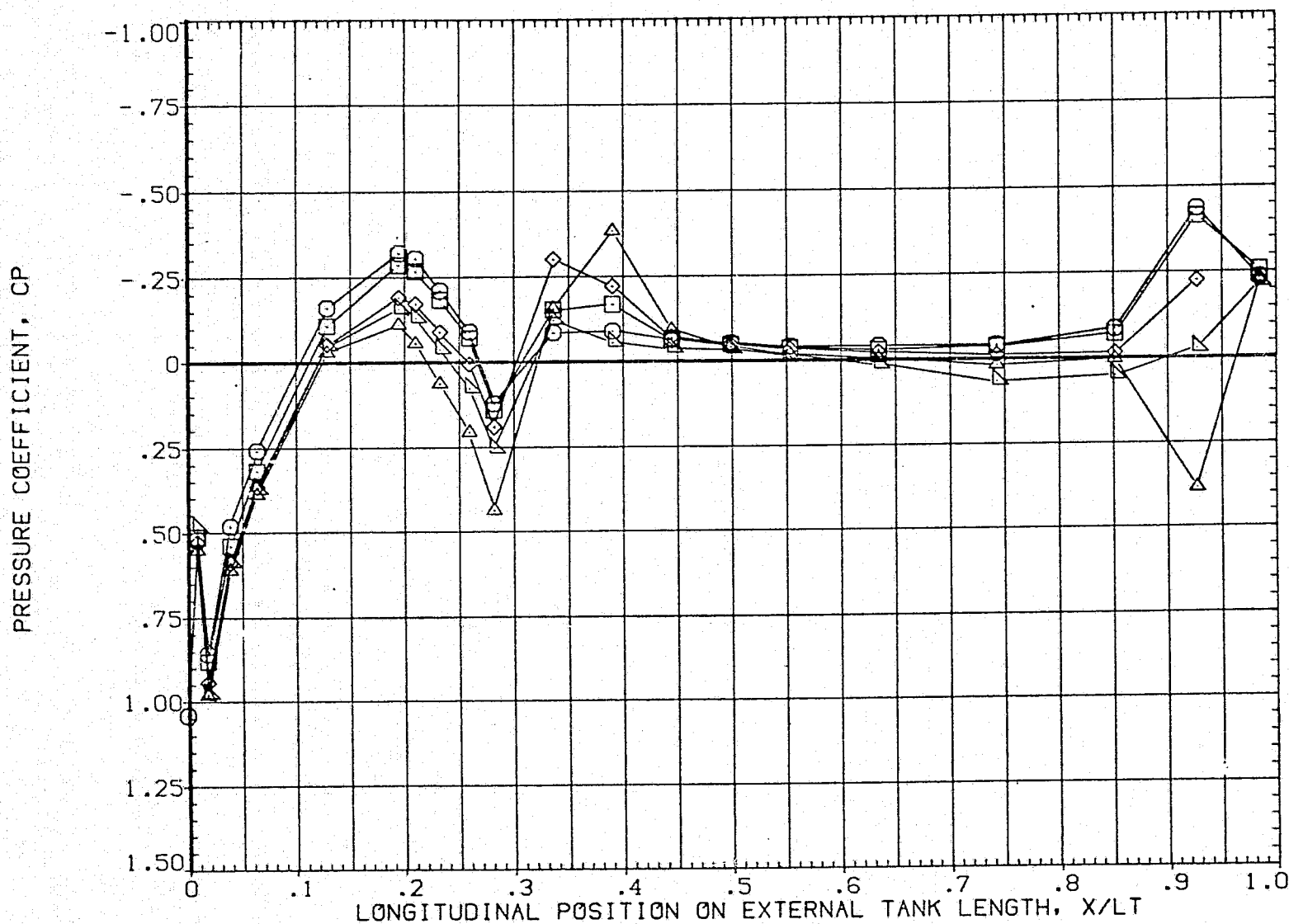


FIG. 57 EXT TANK LONG. PRESSURE DIST. ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 0.6

ARC11-019 1A81 LVAP(ELHL UNSEALD) EXTERNAL TANK (IETT06)

SYMBOL	PHI	BETAT	ALPHAT
○	135.000	-4.000	.000
□	147.000		
◇	162.000		
△	180.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

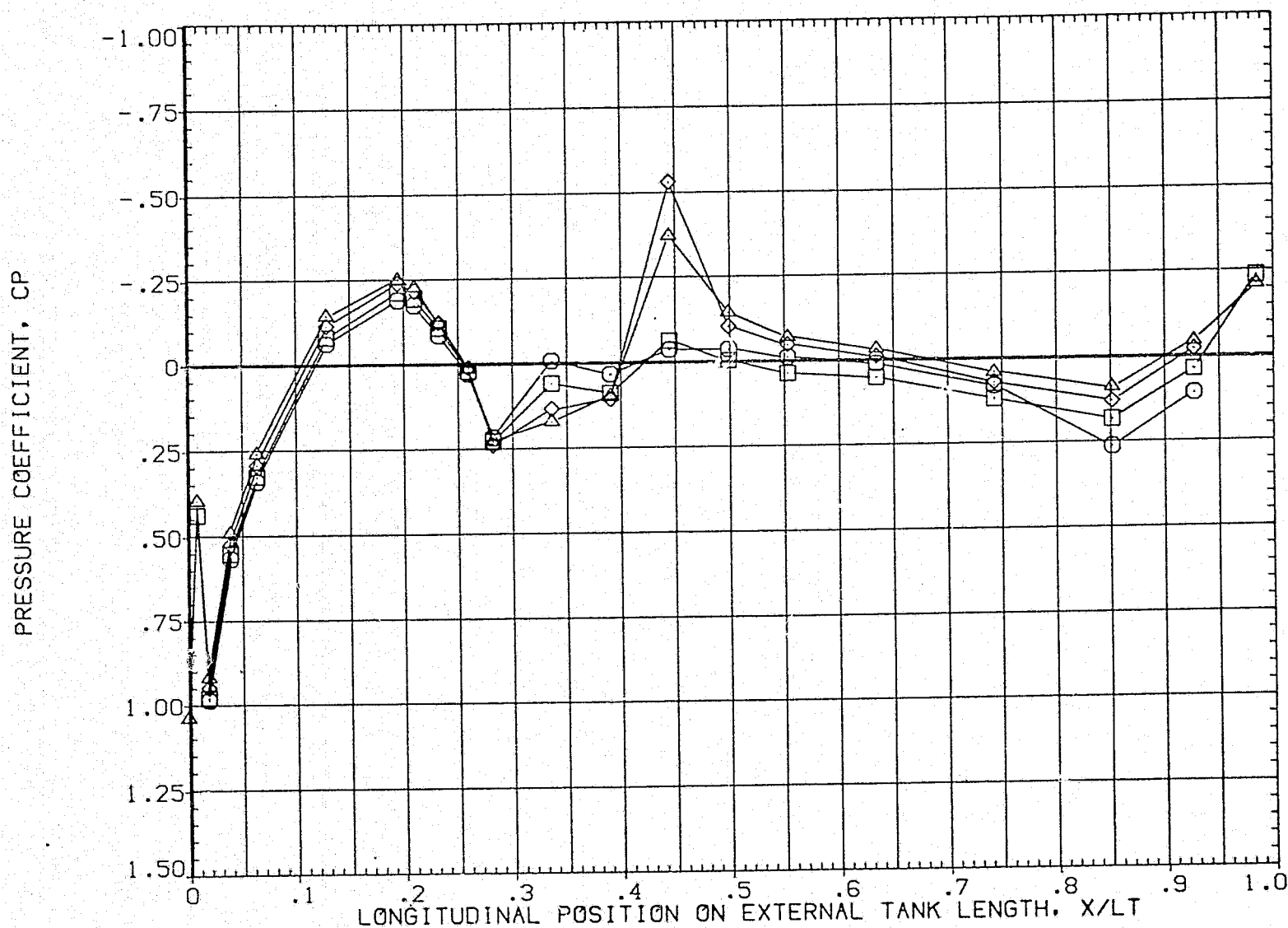


FIG. 57 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

ARC11-019 1A81 LVAP(ELHL UNSEALED) EXTERNAL TANK (IETT06)

SYMBOL	PHI	BETAT	ALPHAT
○	.000	.000	.000
□	30.000		
◇	60.000		
△	90.000		
▽	120.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

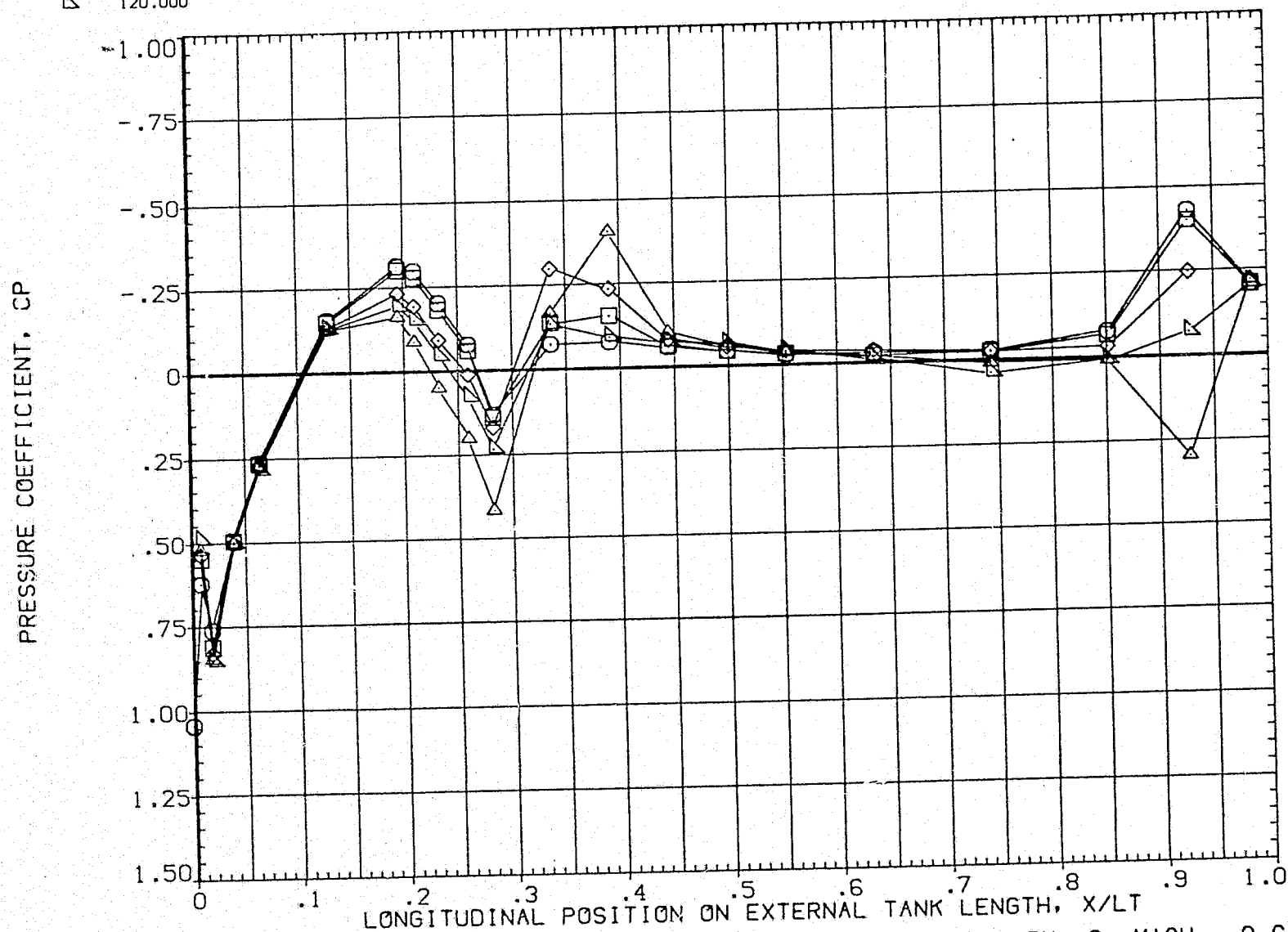


FIG. 57 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

ARC11-019 IA81 LVAP(ELHL UNSEALD) EXTERNAL TANK (IETT06)

SYMBOL	PHI	BETAT	ALPHAT
○	135.000	.000	.000
□	147.000		
◇	162.000		
△	180.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

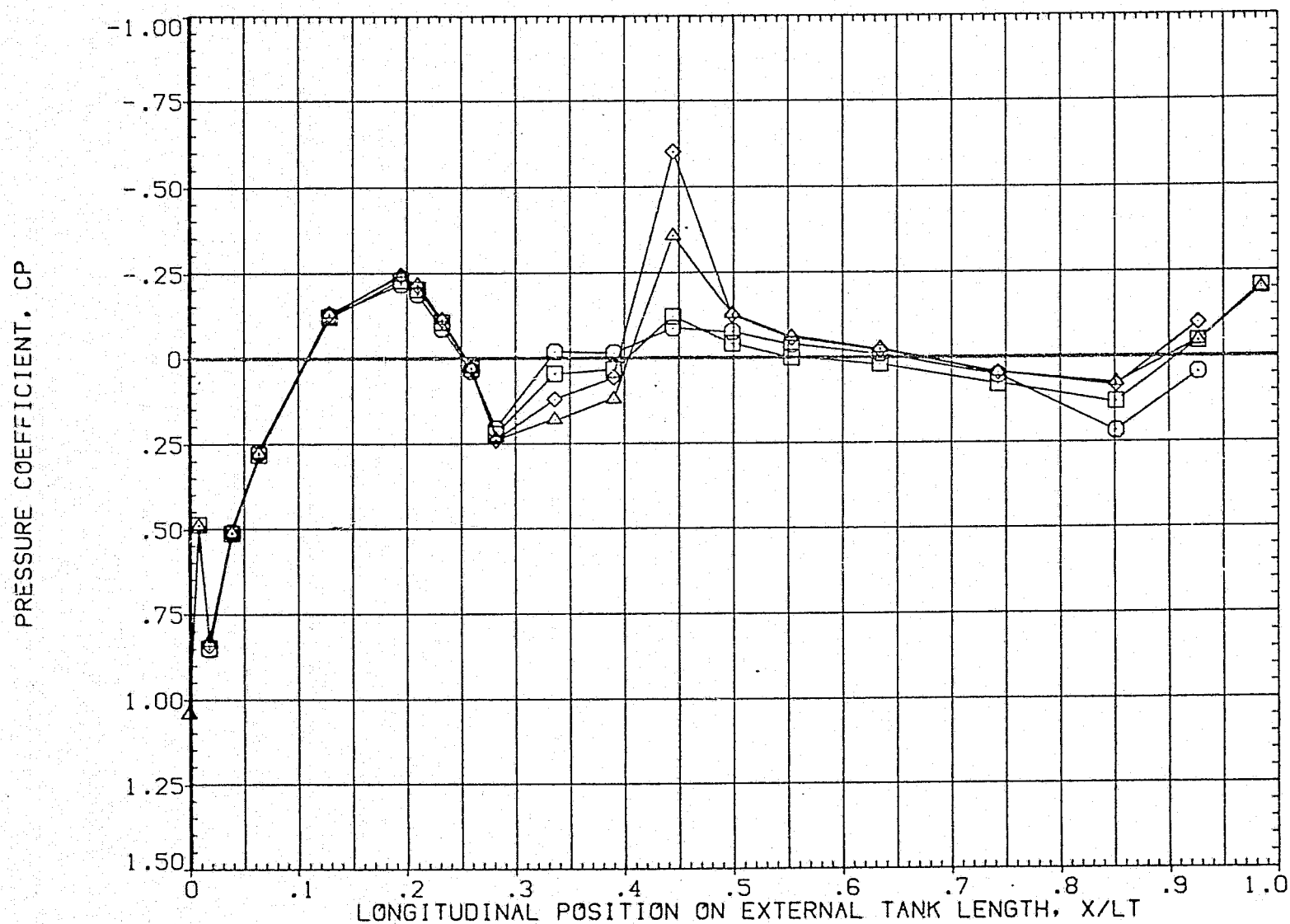


FIG. 57 EXT TANK LONG. PRESSURE DIST. ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 0.6

ARC11-019 IA81 LVAP(ELHL UNSEALD) EXTERNAL TANK (IETT06)

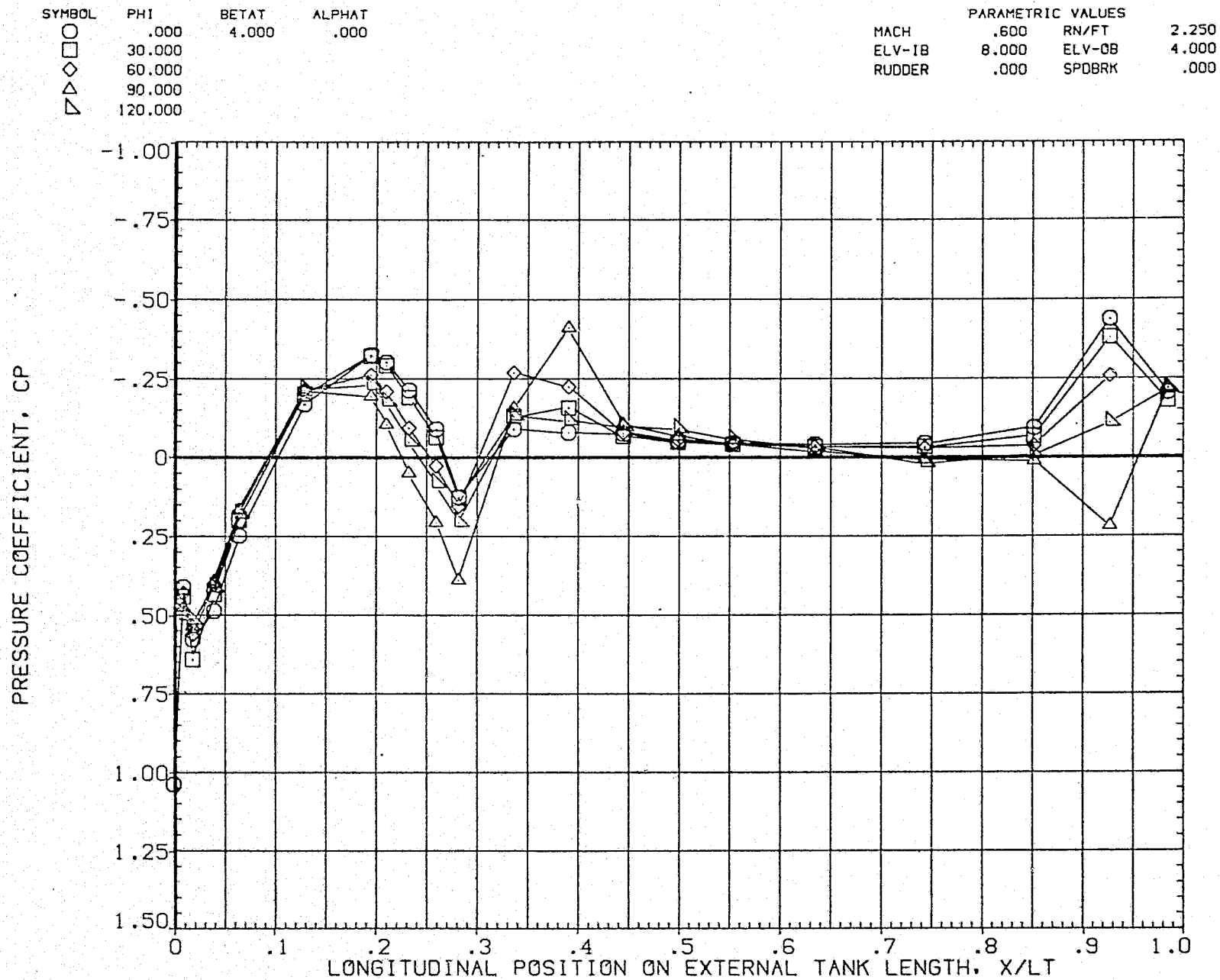


FIG. 57 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

ARC11-019 1A81 LVAP(ELHL UNSEALD) EXTERNAL TANK (IETT06)

SYMBOL	PHI	BETAT	ALPHAT
○	135.000	4.000	.000
□	147.000		
◇	162.000		
△	180.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

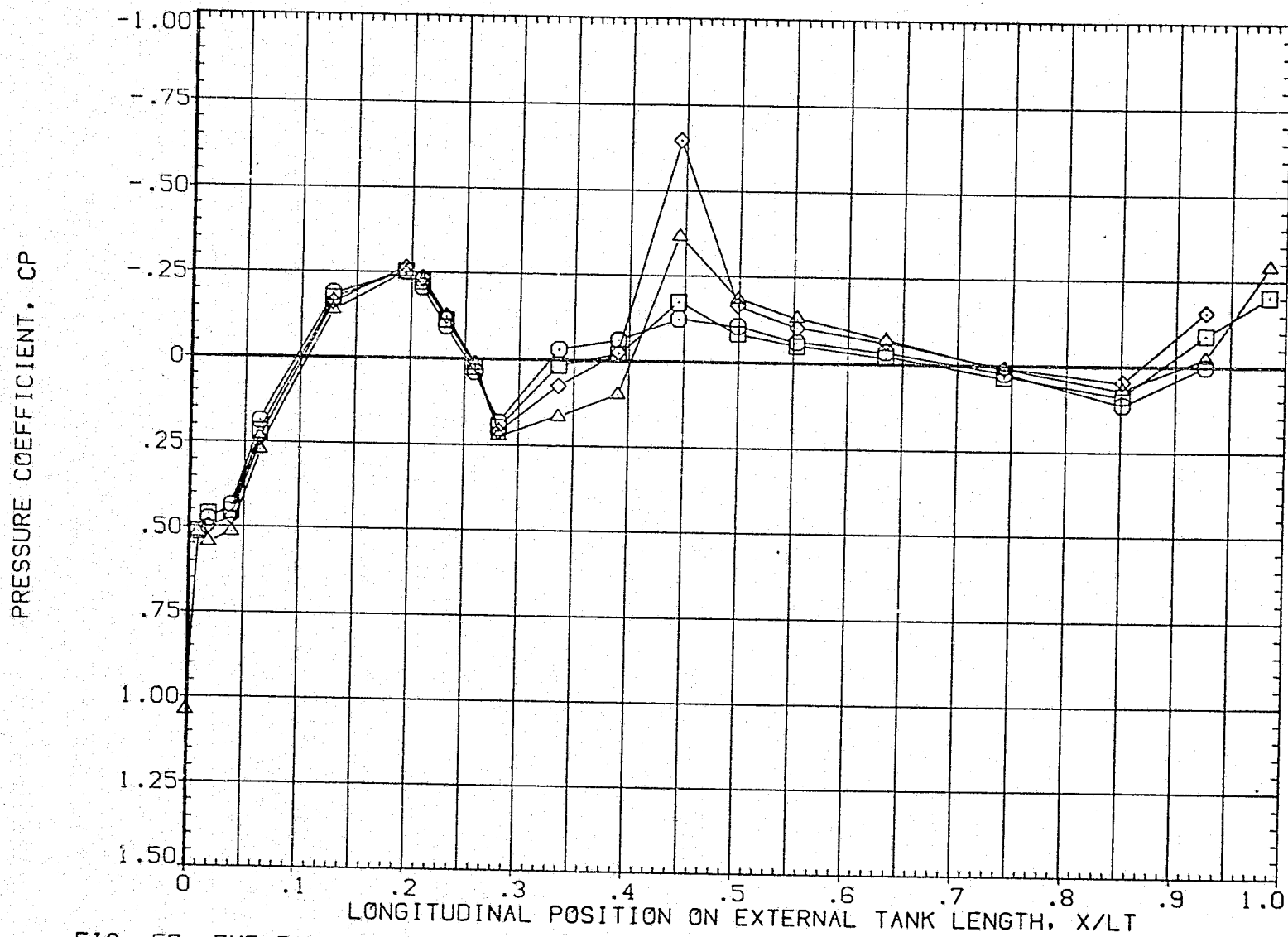


FIG. 57 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

ARC11-019 IA81 LVAP(ELHL UNSEALD) EXTERNAL TANK (IETT06)

SYMBOL	PHI	BETAT	ALPHAT
○	.000	-4.000	4.000
□	30.000		
◇	60.000		
△	90.000		
▽	120.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

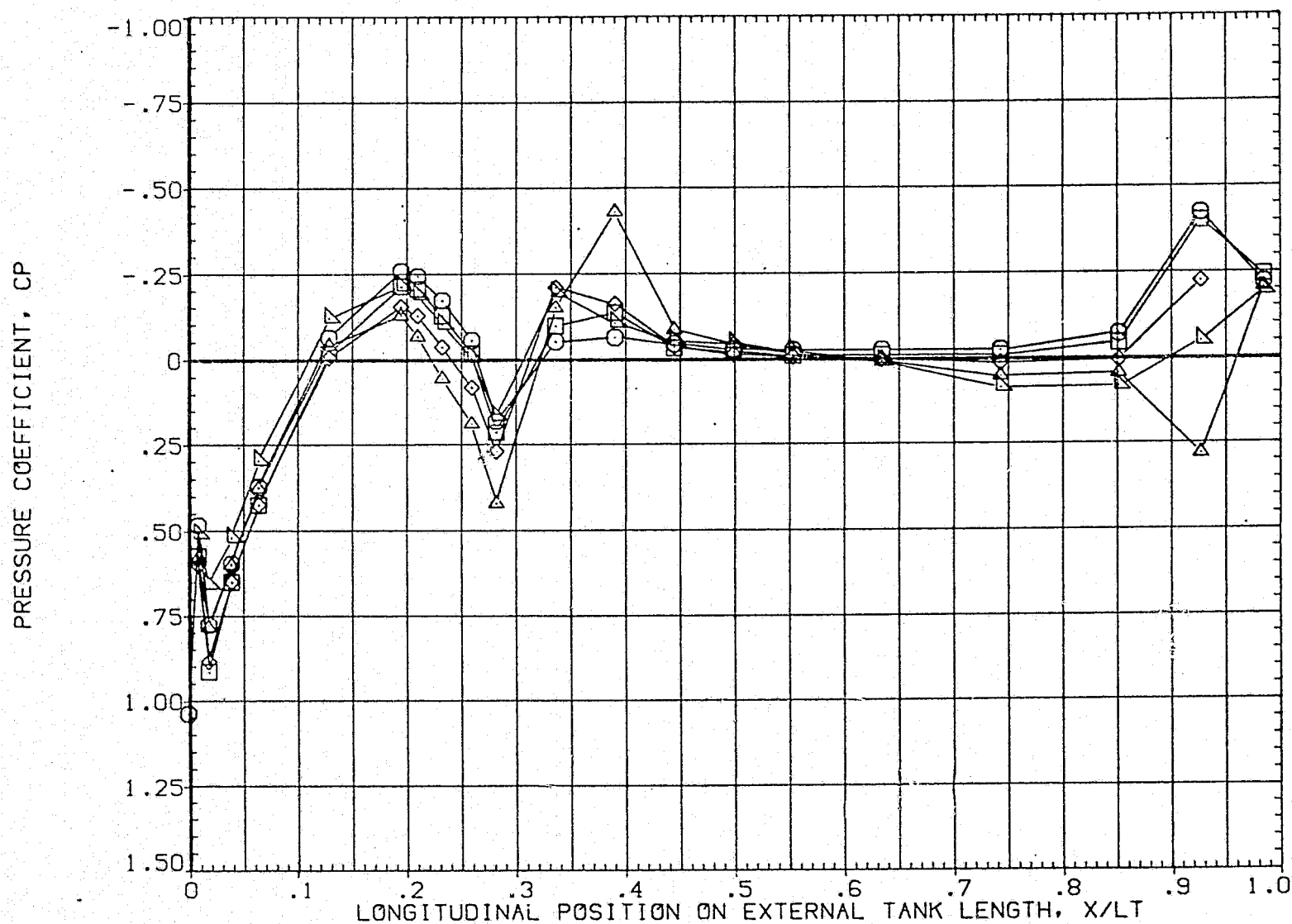


FIG. 57 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

ARC11-019 1A81 LVAP(ELHL UNSEALD) EXTERNAL TANK (IETT06)

SYMBOL	PHI	BETAT	ALPHAT
○	135.000	-4.000	4.000
□	147.000		
◇	162.000		
△	180.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

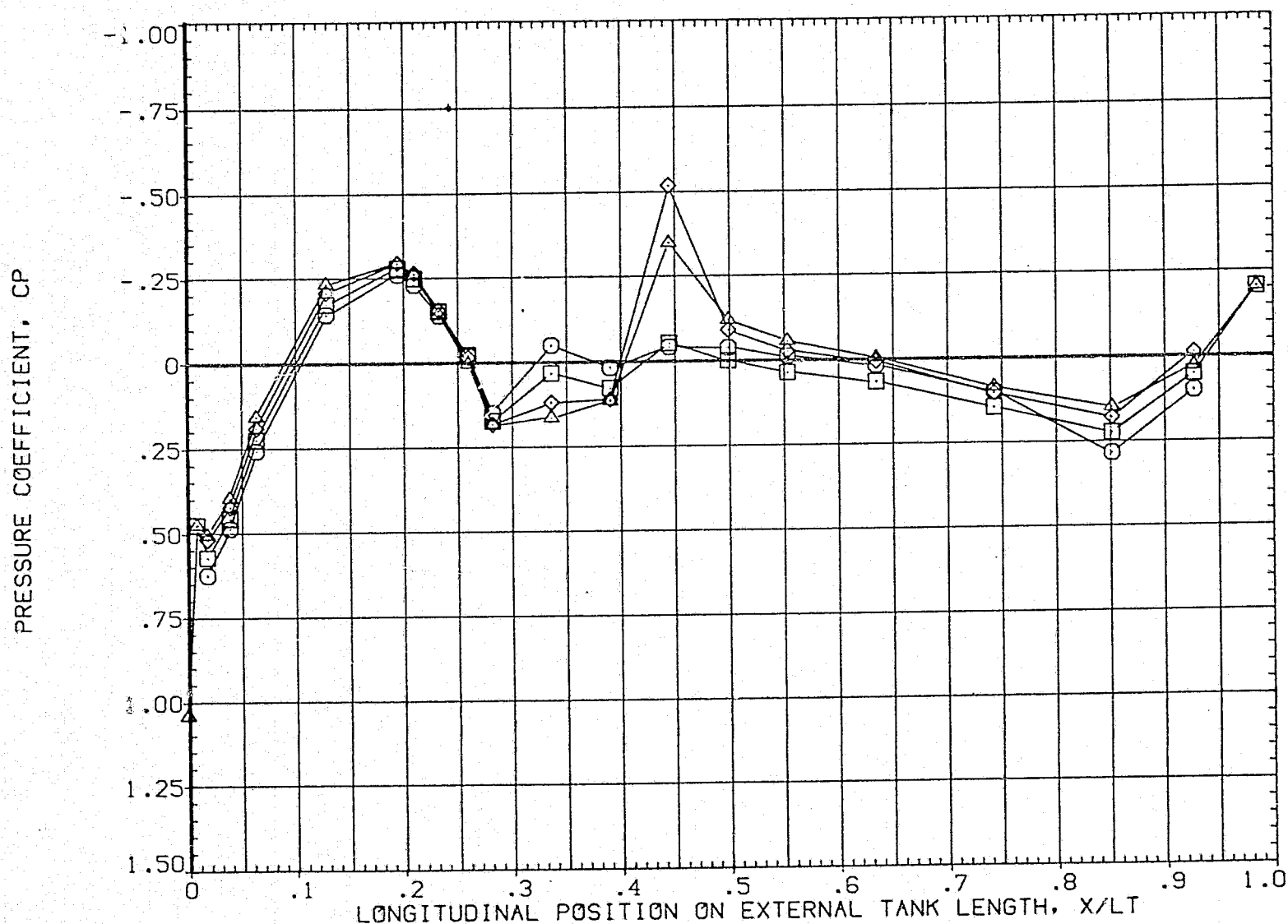


FIG. 57 EXT TANK LONG. PRESSURE DIST. ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 0.6

ARC11-019 1A81 LVAP(ELHL UNSEALED) EXTERNAL TANK (IETT06)

SYMBOL	PHI	BETAT	ALPHAT
○	.000	.000	4.000
□	30.000		
◇	60.000		
△	90.000		
▽	120.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

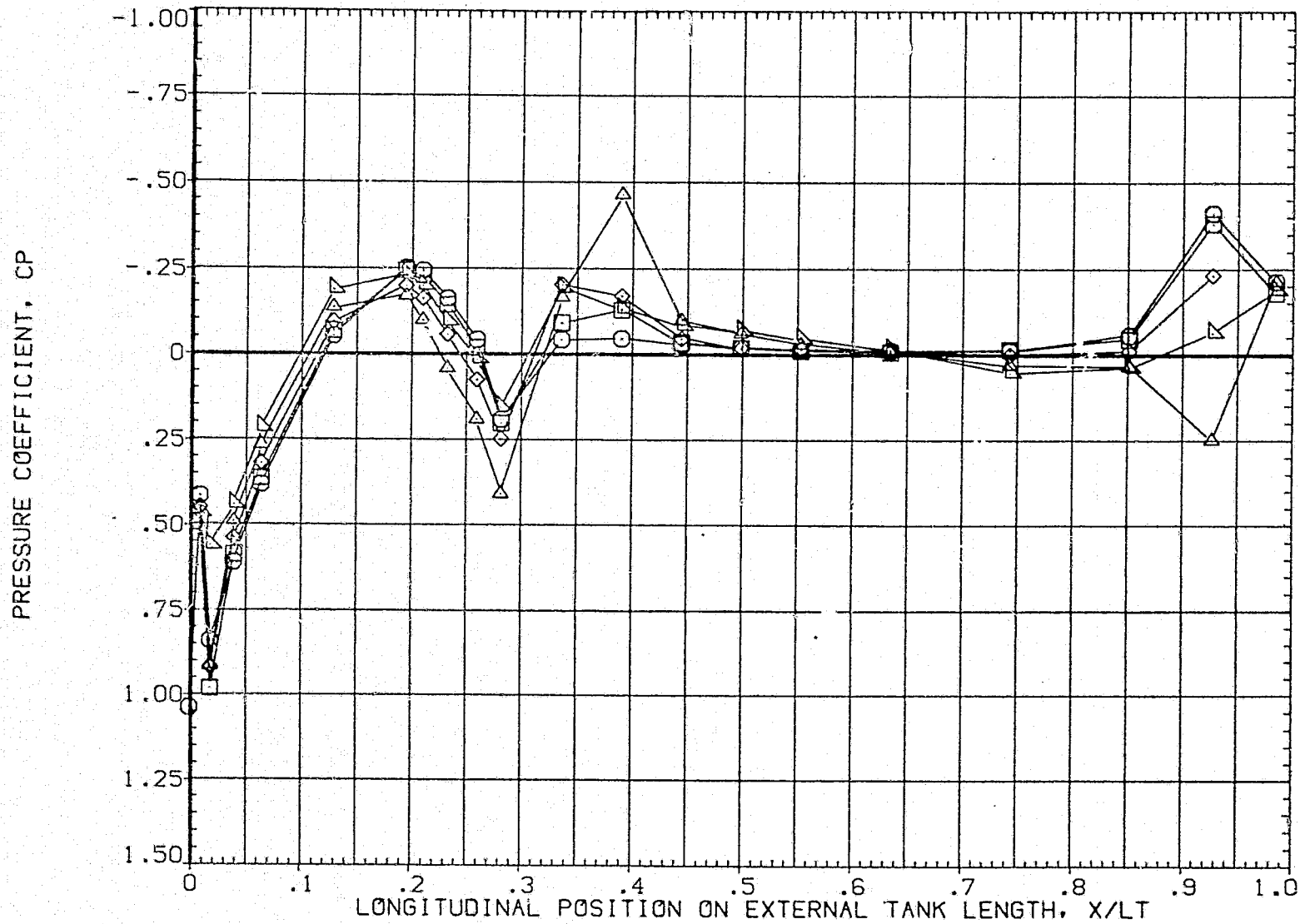


FIG. 57 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

ARC11-019 I481 LVAP(ELHL UNSEALED) EXTERNAL TANK (IETT06)

SYMBOL	PHI	BETAT	ALPHAT
○	135.000	.000	4.000
□	147.000		
◇	162.000		
△	180.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

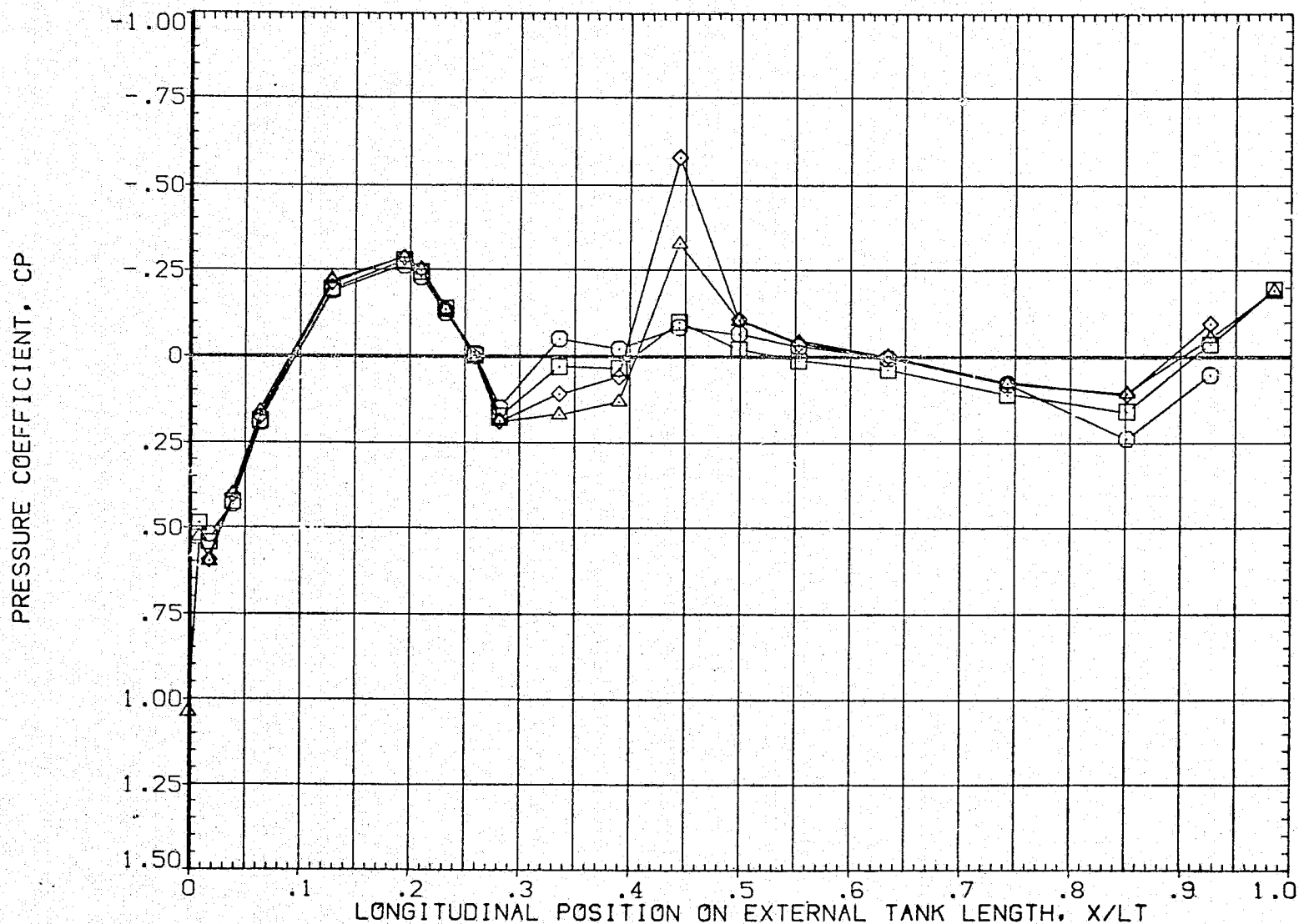


FIG. 57 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

ARC11-019 1A81 LVAP(ELHL UNSEALED) EXTERNAL TANK (IETTO6)

SYMBOL	PHI	BETAT	ALPHAT
○	.000	4.000	4.000
□	30.000		
◇	60.000		
△	90.000		
▽	120.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

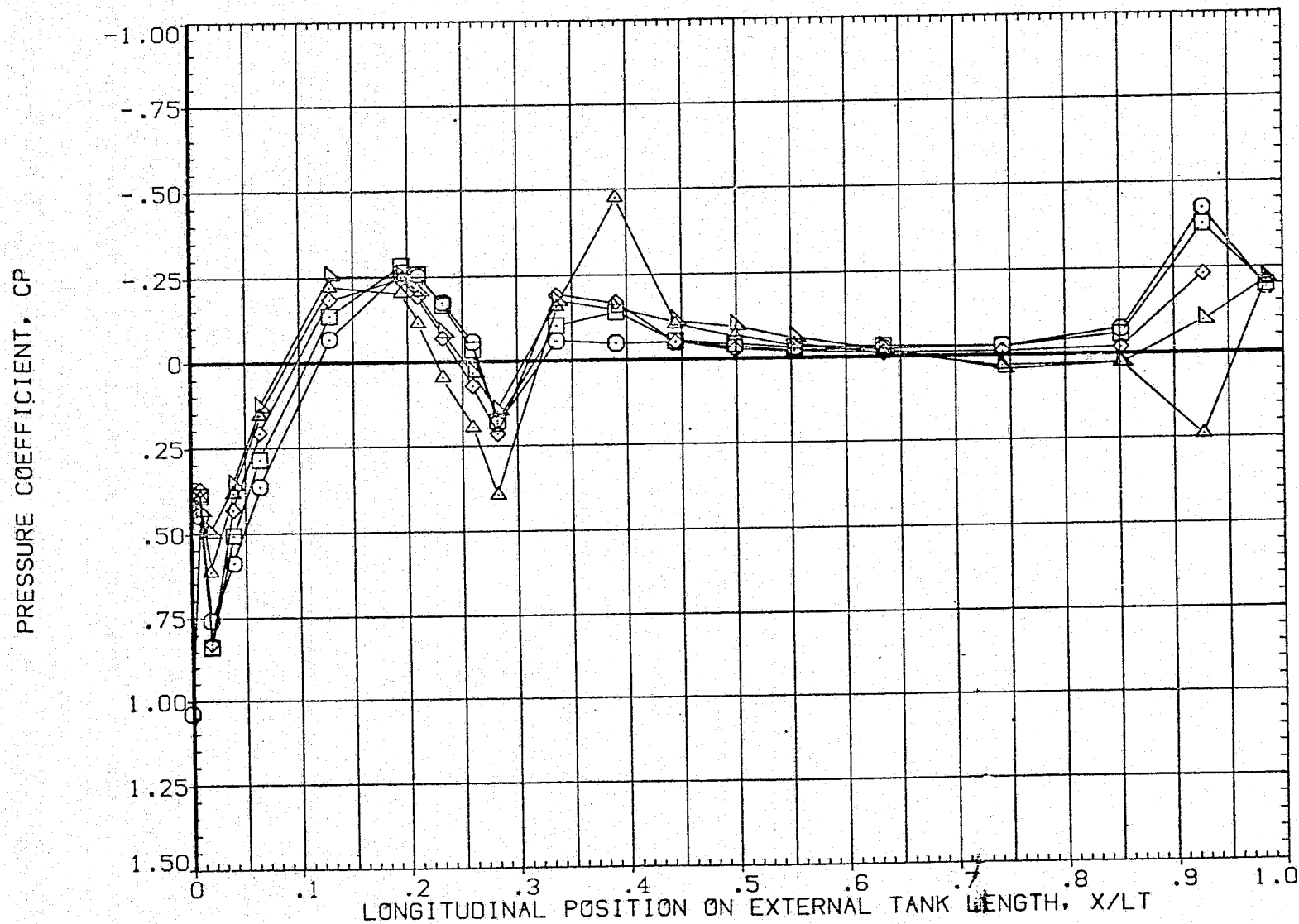


FIG. 57 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

ARC11-019 IA81 LVAP(ELHL UNSEALED) EXTERNAL TANK (IETT06)

SYMBOL	PHI	BETAT	ALPHAT
○	135.000	4.000	4.000
□	147.000		
◇	162.000		
△	180.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

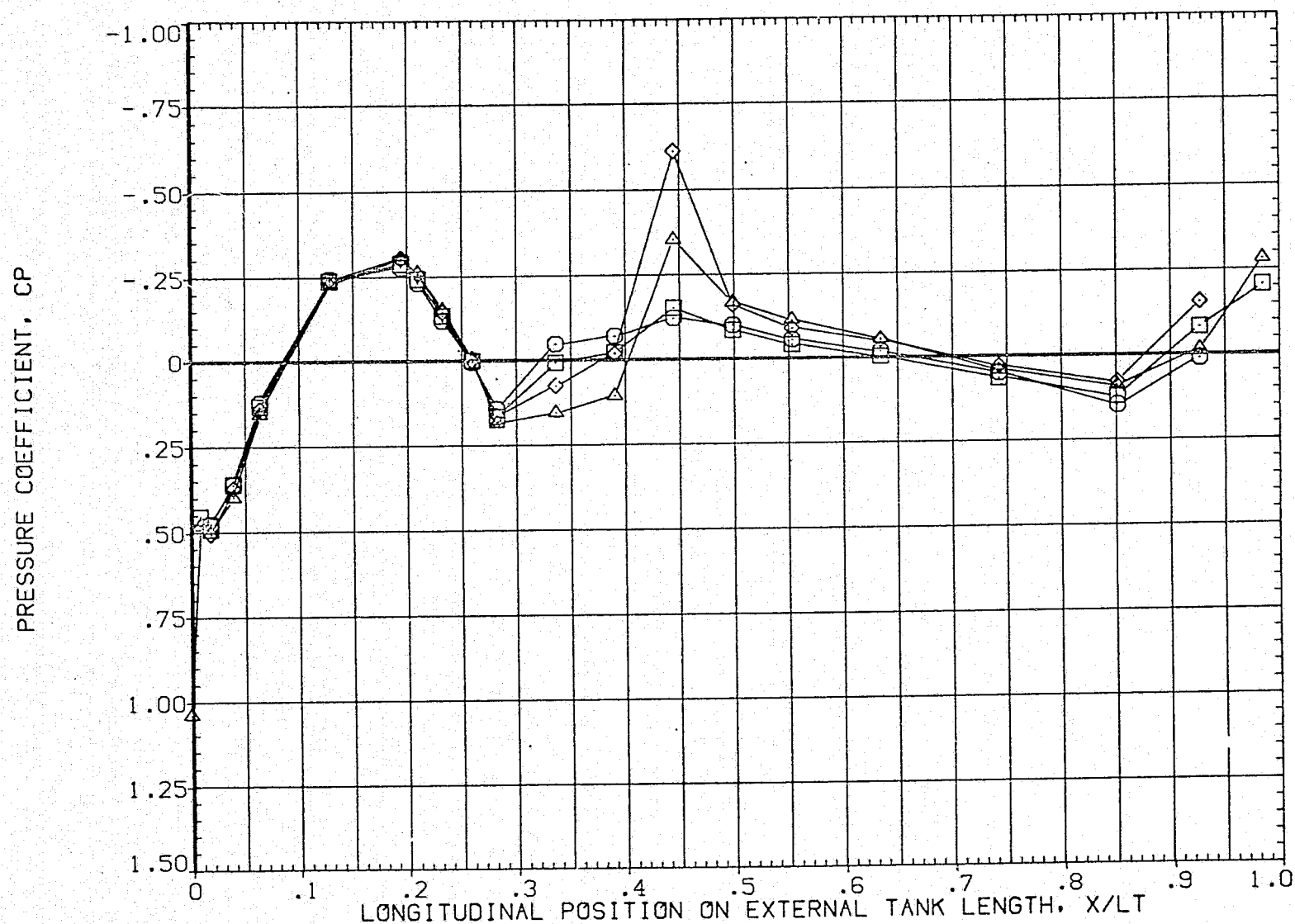


FIG. 57 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

SYMBOL	PHI	BETAT	ALPHAT
○	.000	-4.000	-4.000
□	30.000		
◇	60.000		
△	90.000		
▽	120.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-1B	8.000	ELV-CB	4.000
RUDDER	.000	SPDBRK	.000

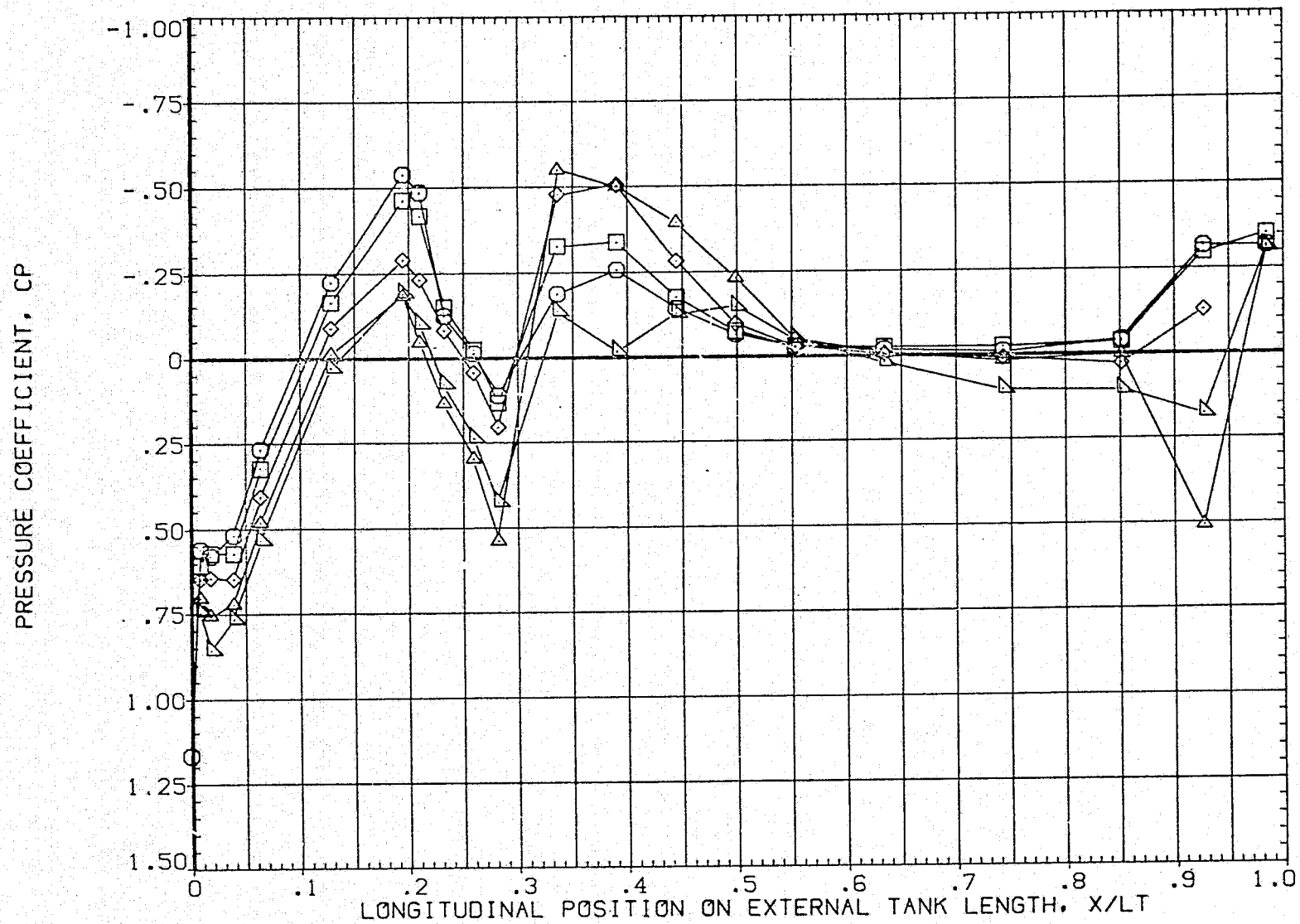


FIG. 58 EXT TANK LONG. PRESSURE DIST. ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 0.9

ARC11-019 1A81 LVAP(ELHL UNSEALD) EXTERNAL TANK (IETT07)

SYMBOL	PHI	BETAT	ALPHAT
○	135.000	-4.000	-4.000
□	147.000		
◇	162.000		
△	180.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

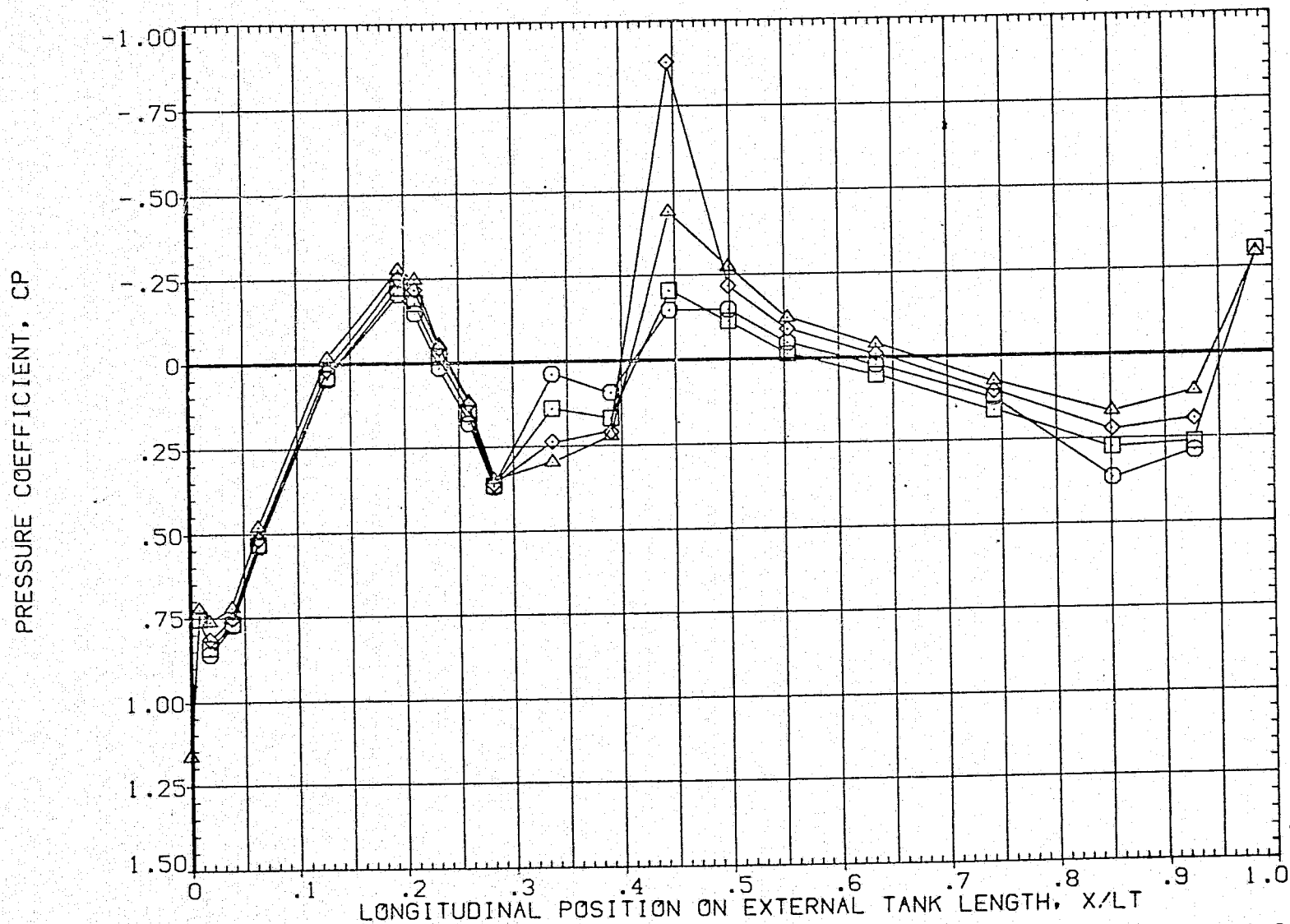


FIG. 58 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

ARC11-019 IAS1 LVAP(ELHL UNSEALD) EXTERNAL TANK (IETT07)

SYMBOL	RHI	BETAT	ALPHAT
○	.000	.000	-4.000
□	30.000		
◇	60.000		
△	90.000		
▽	120.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

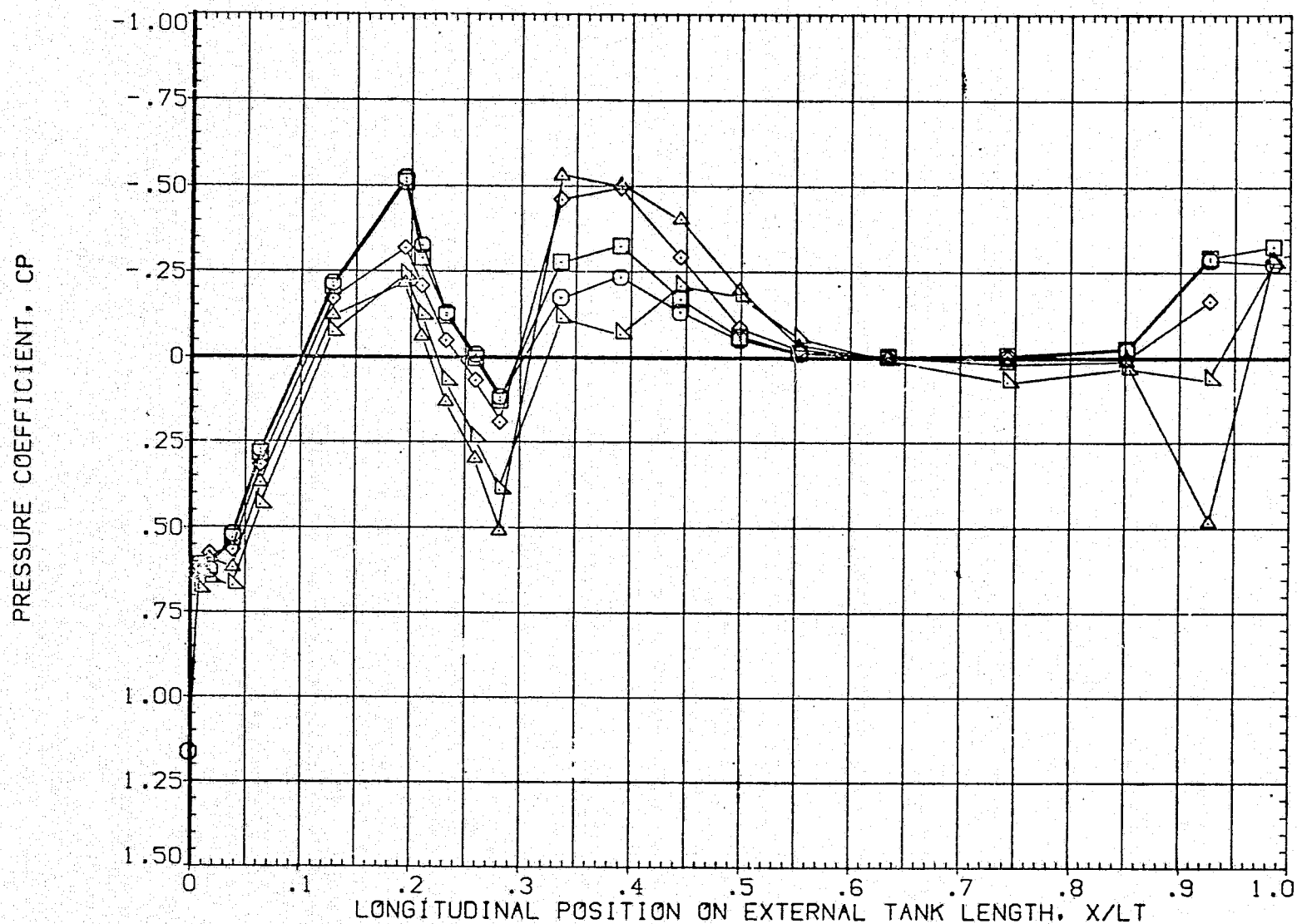


FIG. 58 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

ARC11-019 IA81 LVAP(ELHL UNSEALD) EXTERNAL TANK (JETT07)

SYMBOL	PHI	BETAT	ALPHAT
○	135.000	.000	-4.000
□	147.000		
◇	162.000		
△	180.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

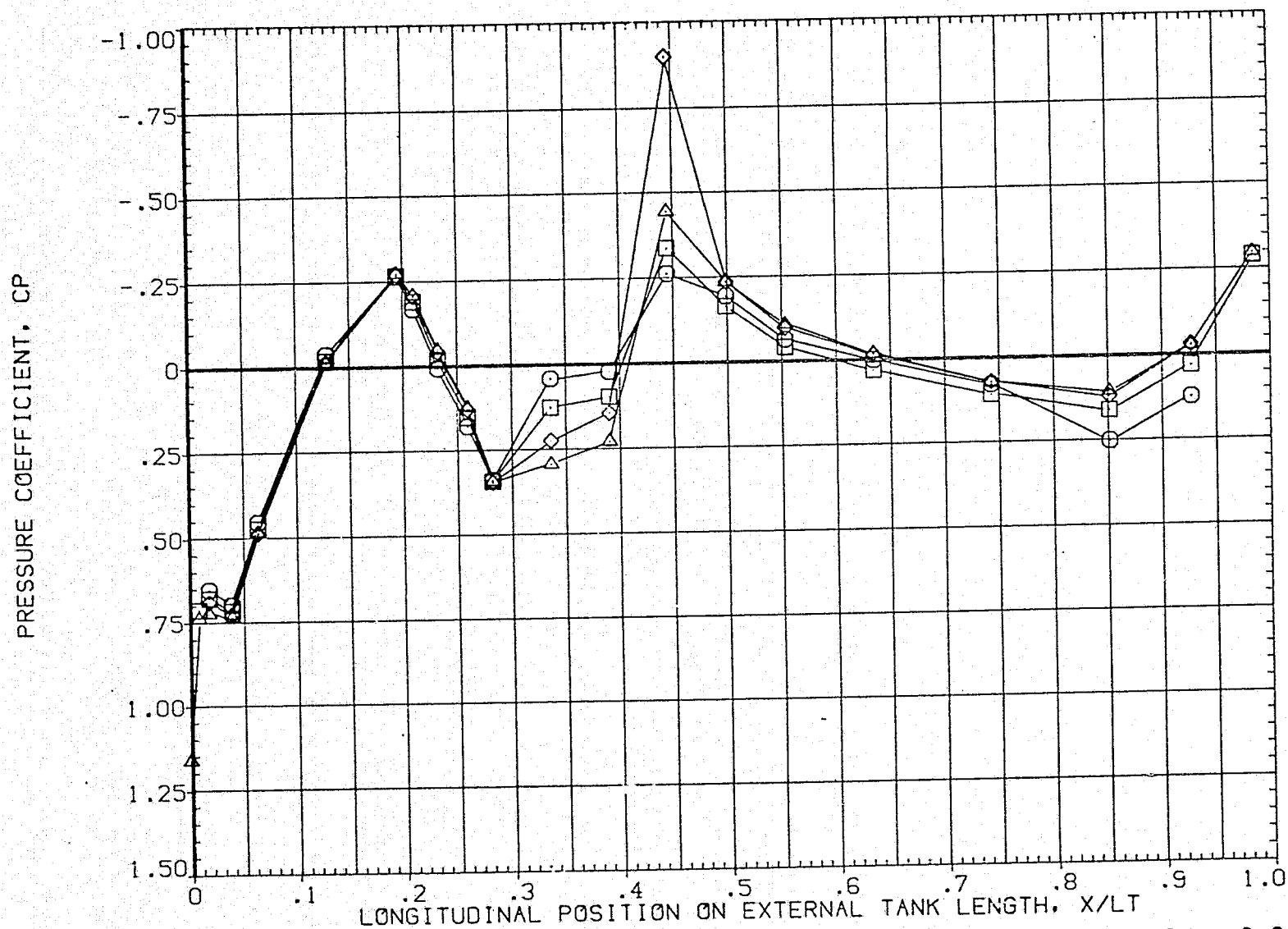


FIG. 58 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

SYMBOL

○
□
◇
△
▽

PHI

.000
30.000
60.000
90.000
120.000

BETAT

4.000

ALPHAT

-4.000

PARAMETRIC VALUES

MACH	.900	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

PRESSURE COEFFICIENT, CP

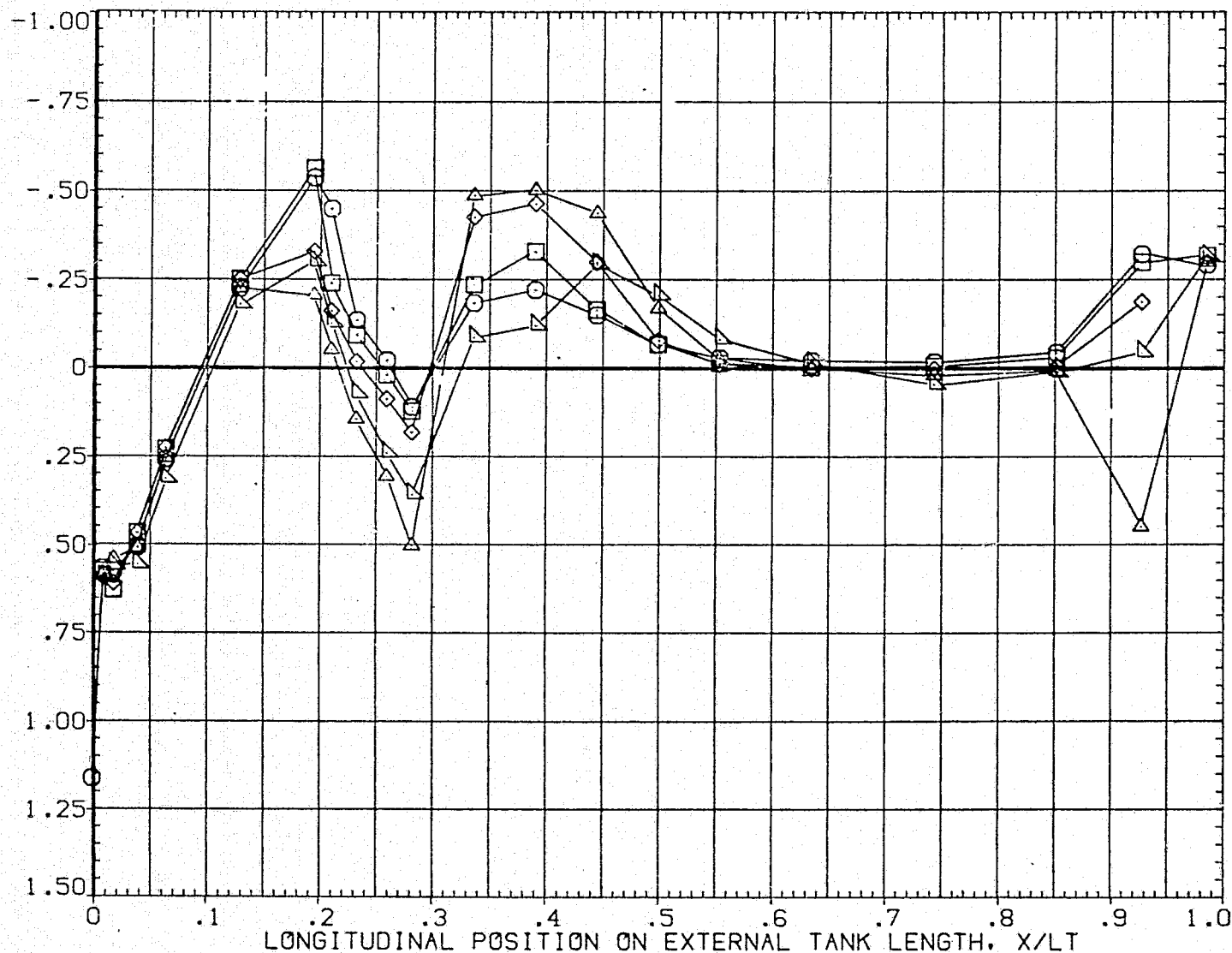


FIG. 58 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

ARC11-019 1A81 LVAP(ELHL UNSEALD) EXTERNAL TANK (IETT07)

SYMBOL	PHI	BETAT	ALPHAT
○	135.000	4.000	-4.000
□	147.000		
◇	162.000		
△	180.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

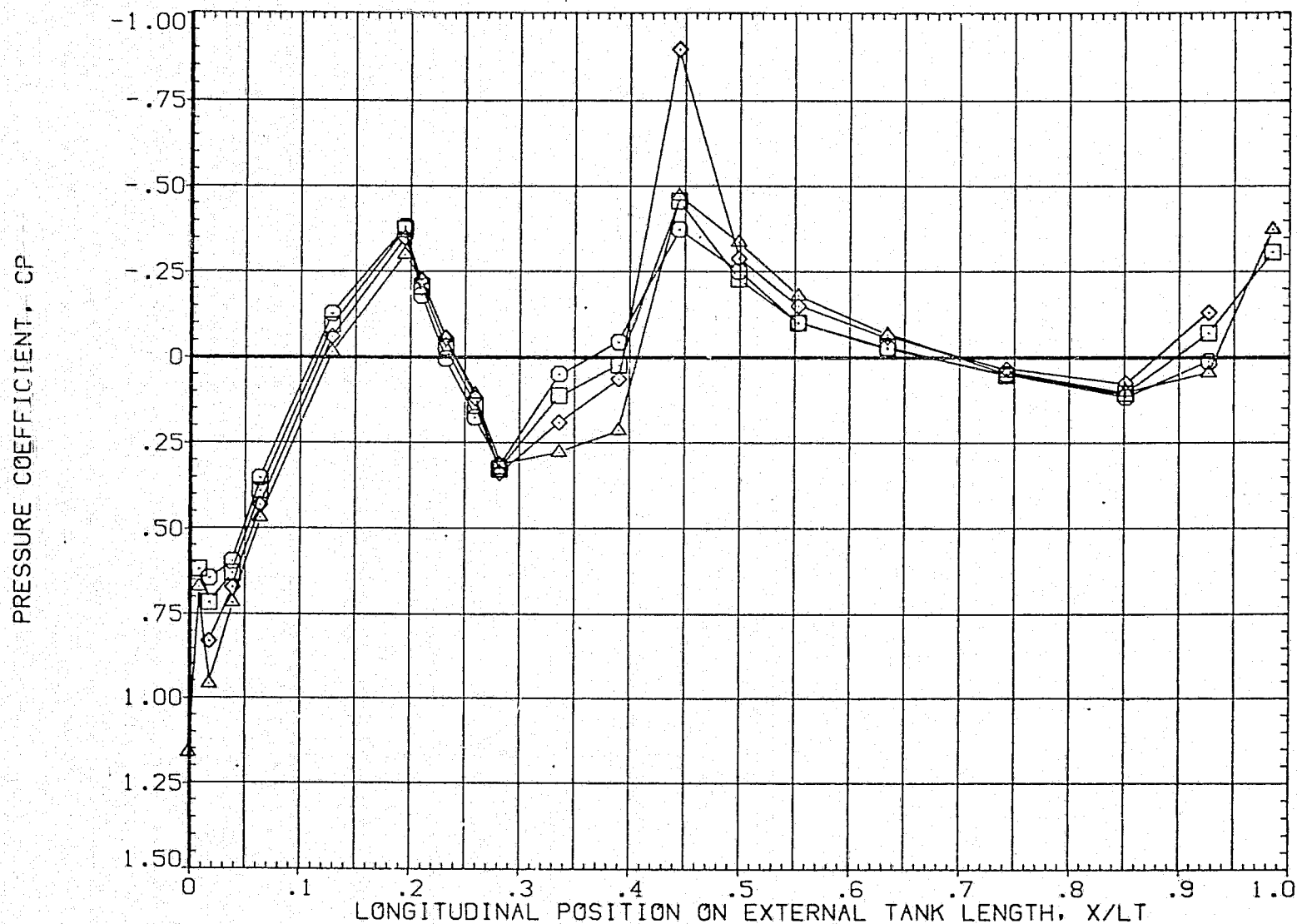


FIG. 58 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

ARC11-019 IA81 LVAP(ELHL UNSEALED) EXTERNAL TANK (IETT07)

SYMBOL	PHI	BETAT	ALPHAT
○	.000	-4.000	.000
□	30.000		
◇	60.000		
△	90.000		
▽	120.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-18	8.000	ELV-09	4.000
RUDDER	.000	SPDBRK	.000

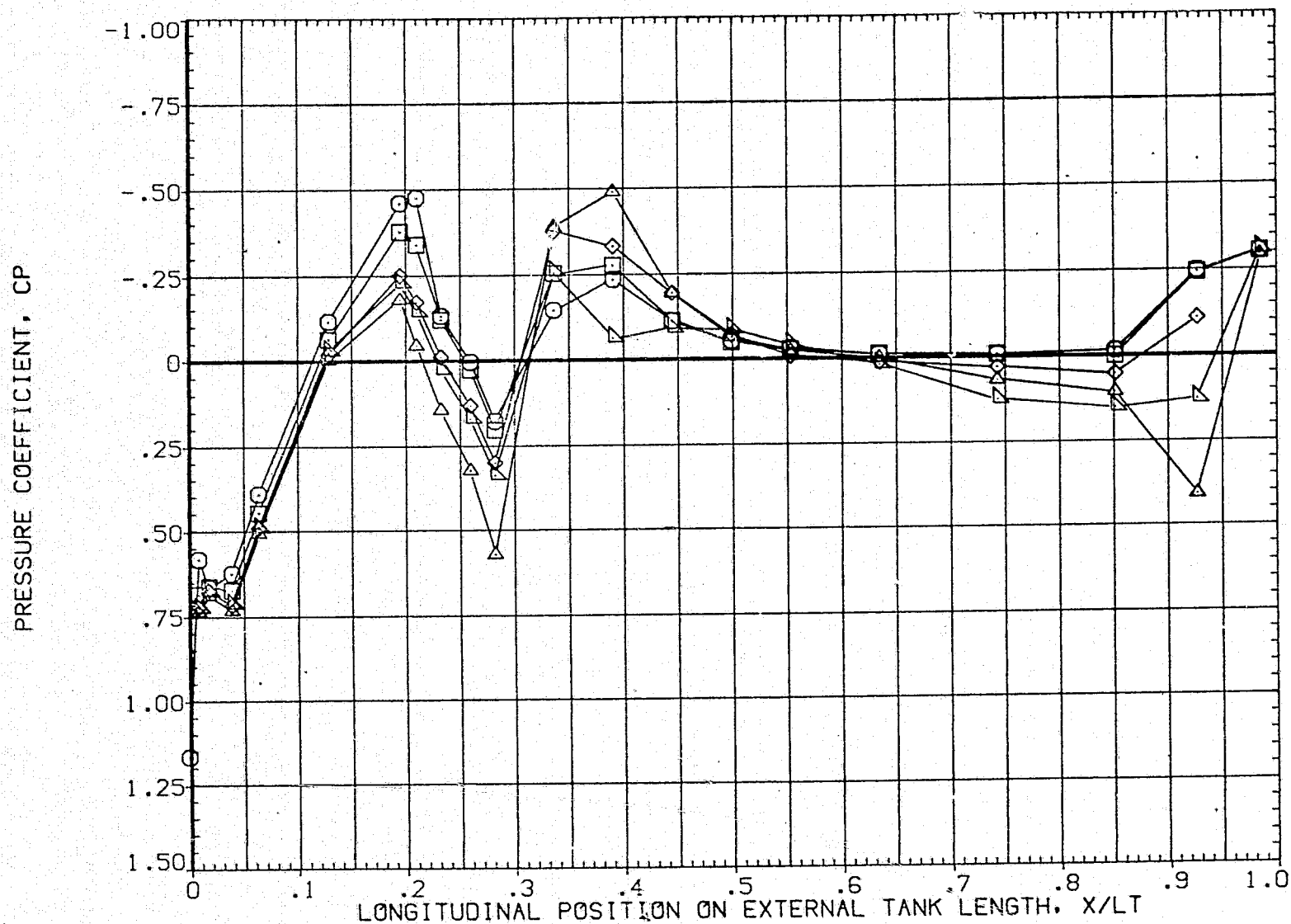


FIG. 58 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

ARC11-019 IA81 LVAP(ELHL UNSEALD) EXTERNAL TANK (IETT07)

SYMBOL	PHI	BETAT	ALPHAT
○	135.000	-4.000	.000
□	147.000		
◇	162.000		
△	180.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

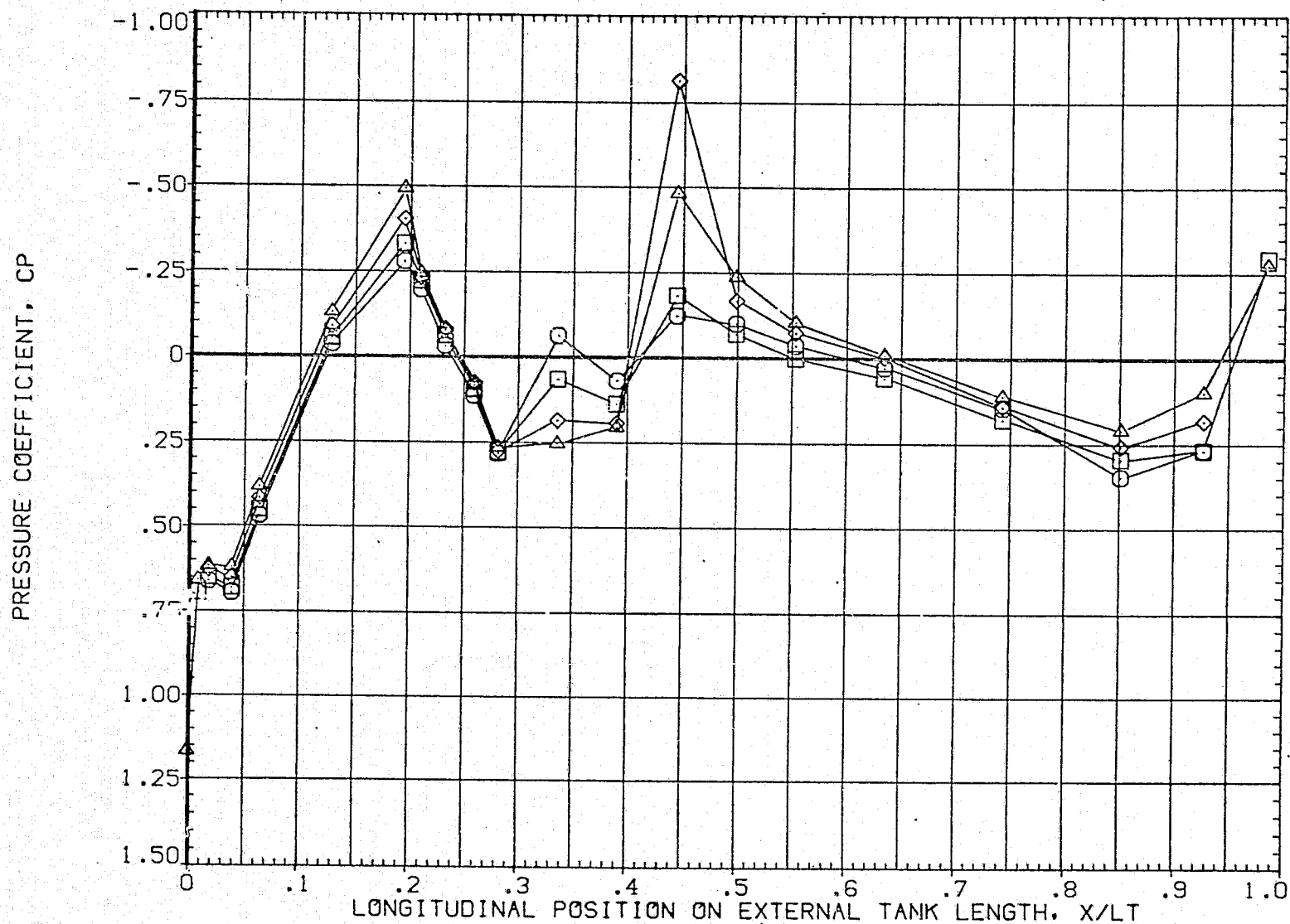


FIG. 58 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

SYMBOL	PHI	BETAT	ALPHAT
○	.000	.000	.000
□	30.000		
◇	60.000		
△	90.000		
▽	120.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

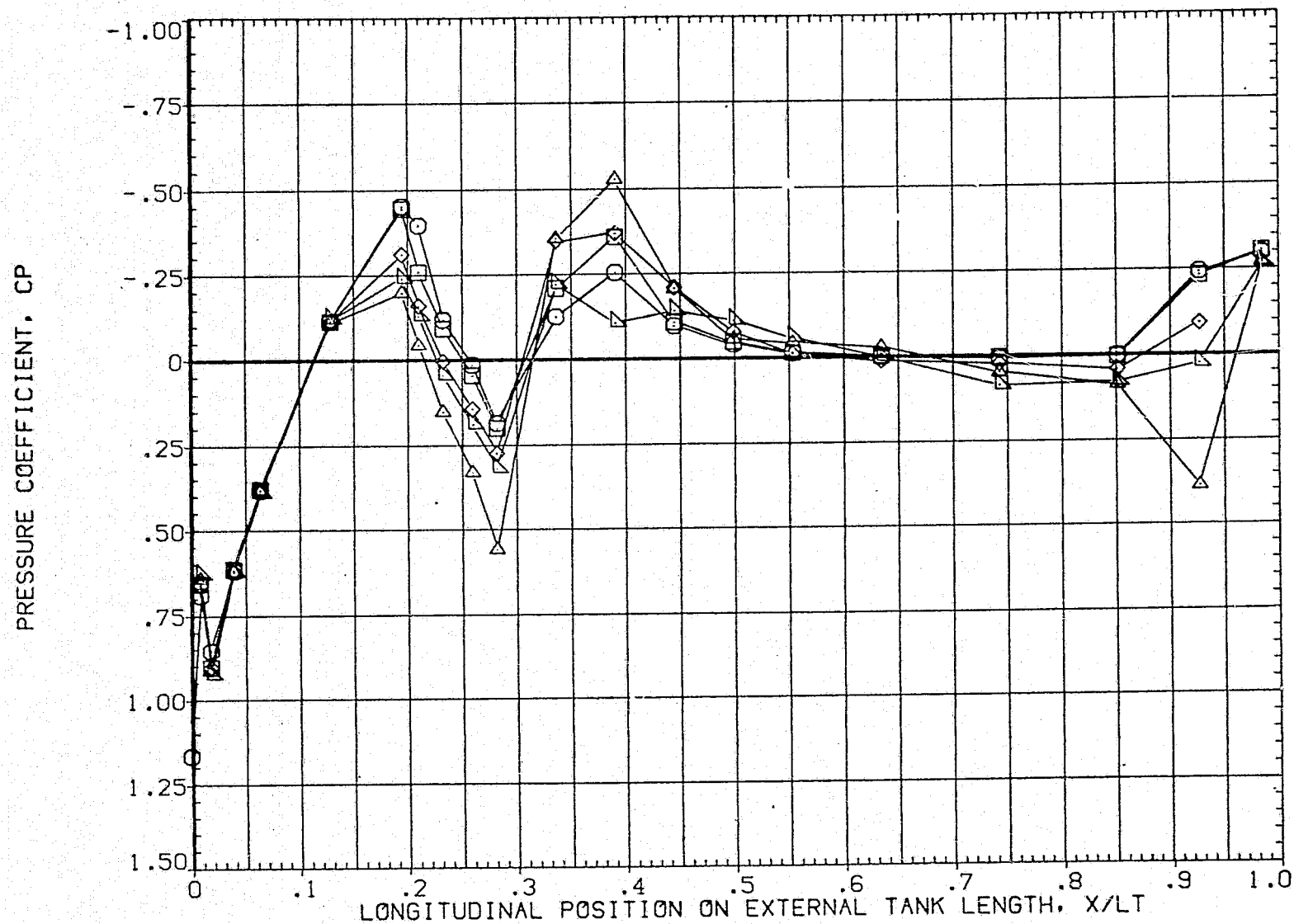


FIG. 58 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK =0, MACH = 0.9

ARC11-019 1A81 LVAP(ELHL UNSEALD) EXTERNAL TANK (IETT07)

SYMBOL	PHI	BETAT	ALPHAT
○	135.000	.000	.000
□	147.000		
◇	162.000		
△	180.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

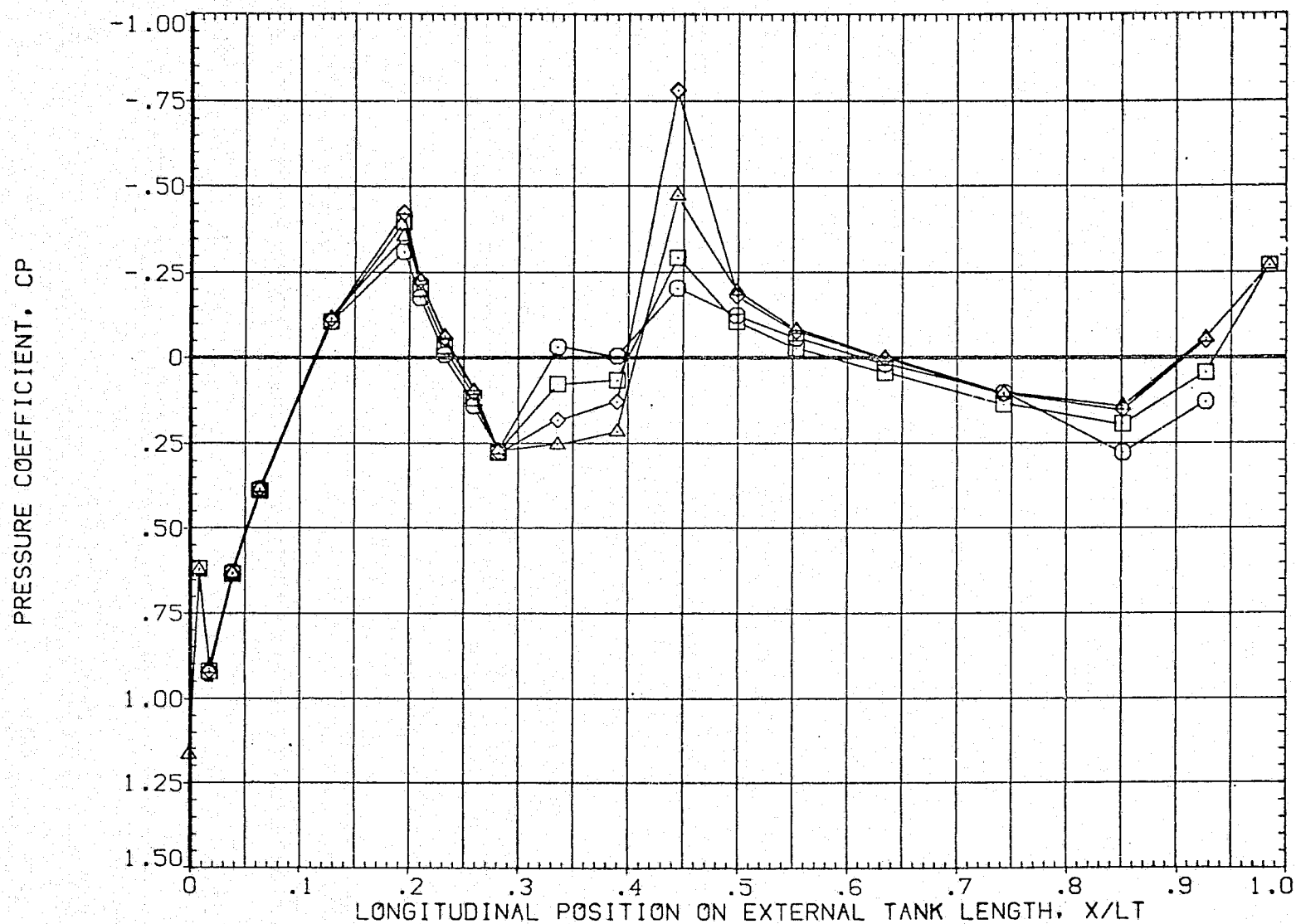


FIG. 58 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

SYMBOL	PHI	BETAT	ALPHAT
○	.000	4.000	.000
□	30.000		
◇	60.000		
△	90.000		
▽	120.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

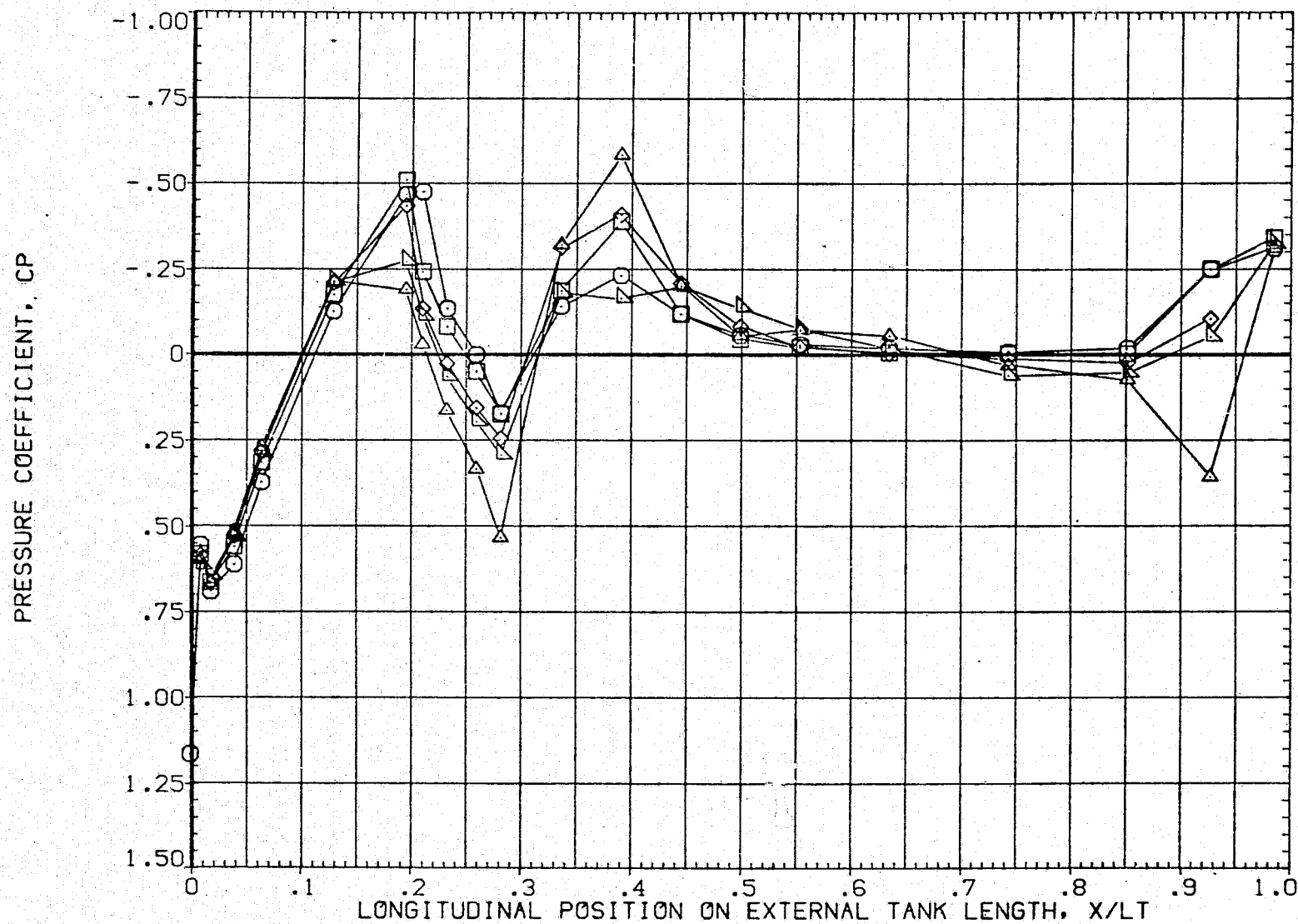


FIG. 58 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

ARC11-019 1A81 LVAP(ELHL UNSEALD) EXTERNAL TANK (IETT07)

SYMBOL	PHI	BETAT	ALPHAT
○	135.000	4.000	.000
□	147.000		
◇	162.000		
△	180.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

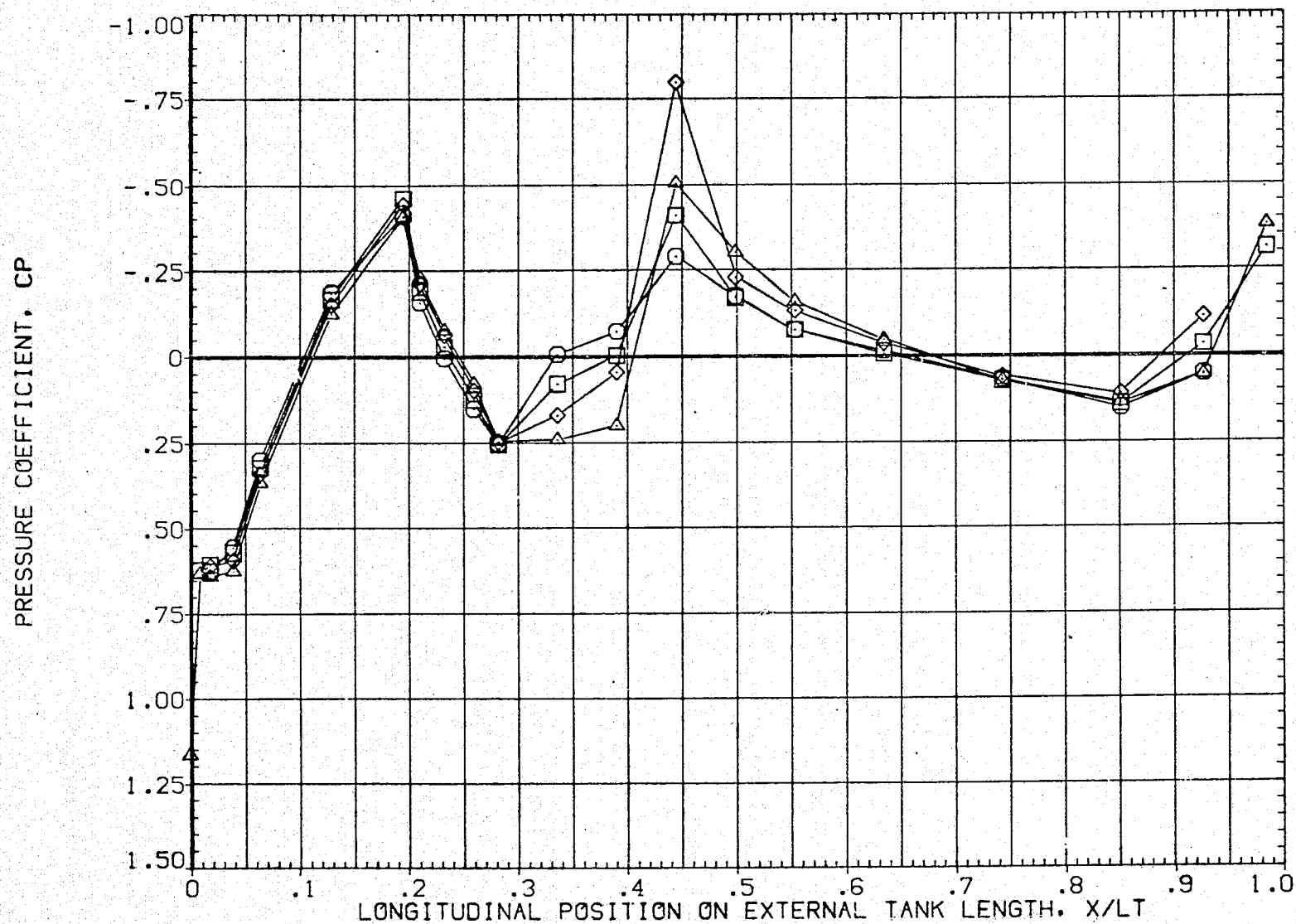


FIG. 58 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

ARC11-019 1A81 LVAP(ELHL UNSEALD) EXTERNAL TANK (IETTO7)

SYMBOL
 ○
 □
 ◇
 △
 ▽

PHI
 .000
 30.000
 60.000
 90.000
 120.000

BETAT
 -4.000

ALPHAT
 4.000

PARAMETRIC VALUES

MACH	.900	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

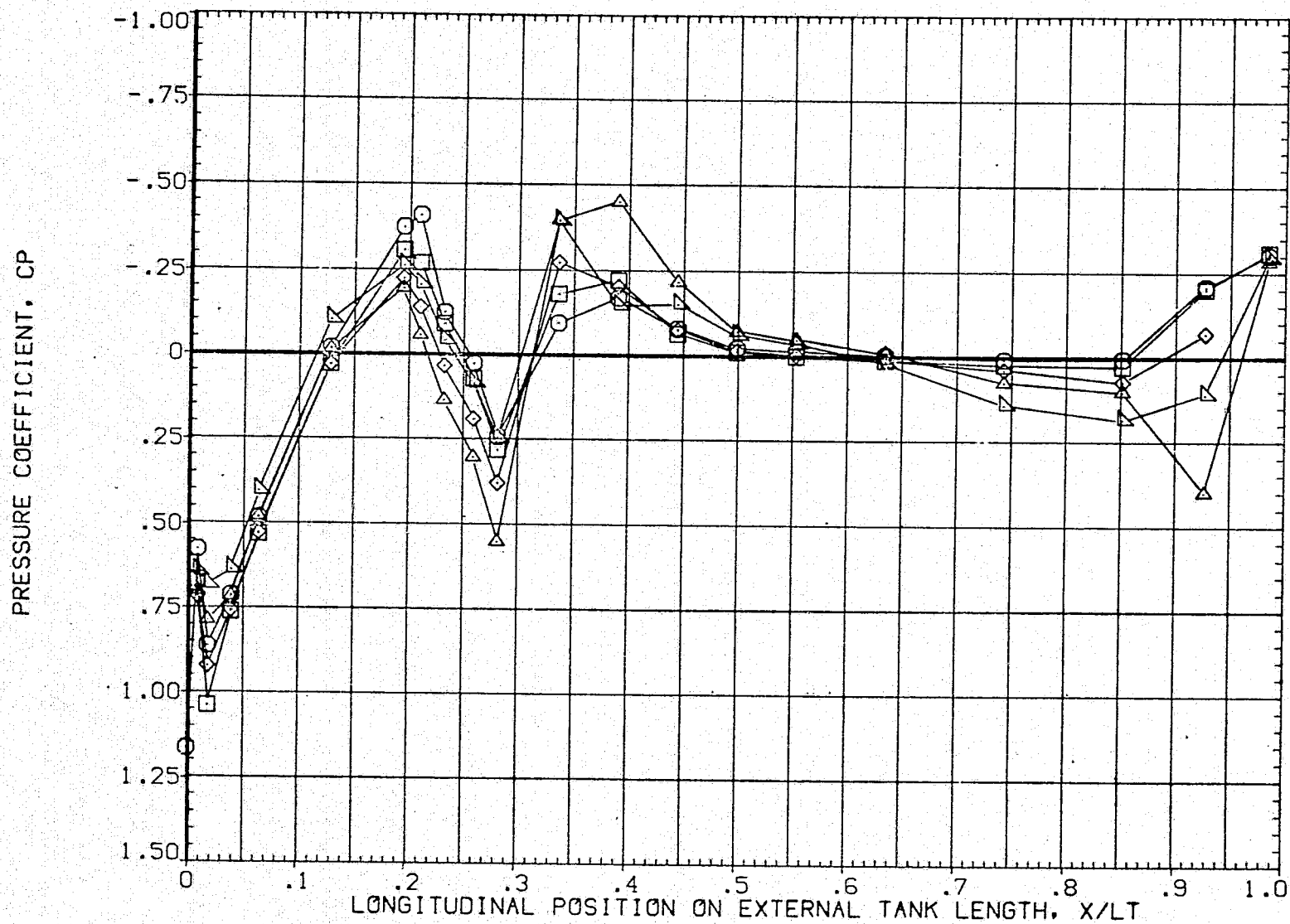


FIG. 58 EXT TANK LONG. PRESSURE DIST. ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 0.9

ARC11-019 IA81 LVAP(ELHL UNSEALD) EXTERNAL TANK (IETTO7)

SYMBOL	PHI	BETAT	ALPHAT
○	135.000	-4.000	4.000
□	147.000		
◇	162.000		
△	180.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

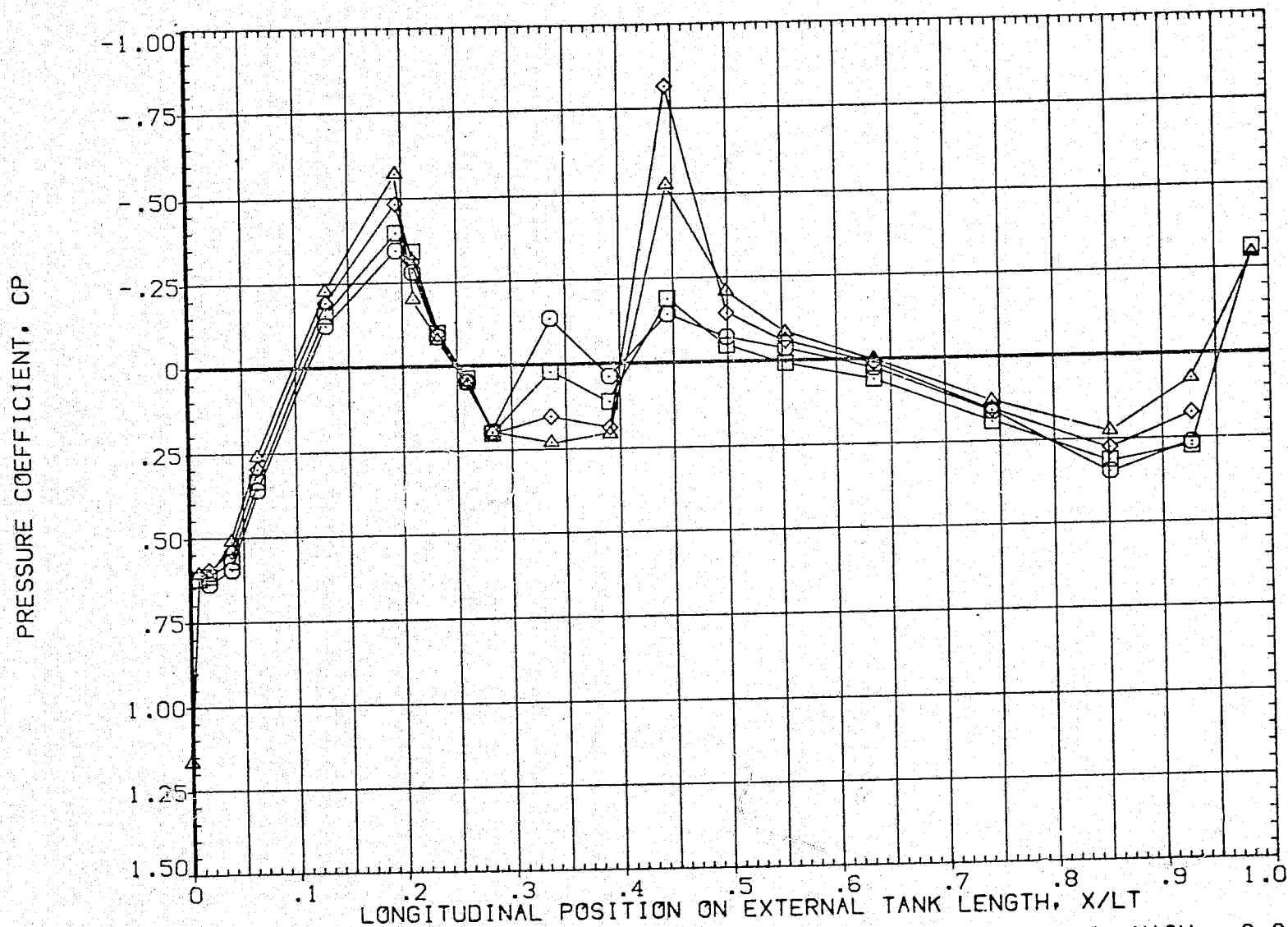


FIG. 58 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

ARC11-019 1A81 LVAP(ELHL UNSEALD) EXTERNAL TANK (IETT07)

SYMBOL	PHI	BETAT	ALPHAT
○	.000	.000	4.000
□	30.000		
◇	60.000		
△	90.000		
▽	120.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

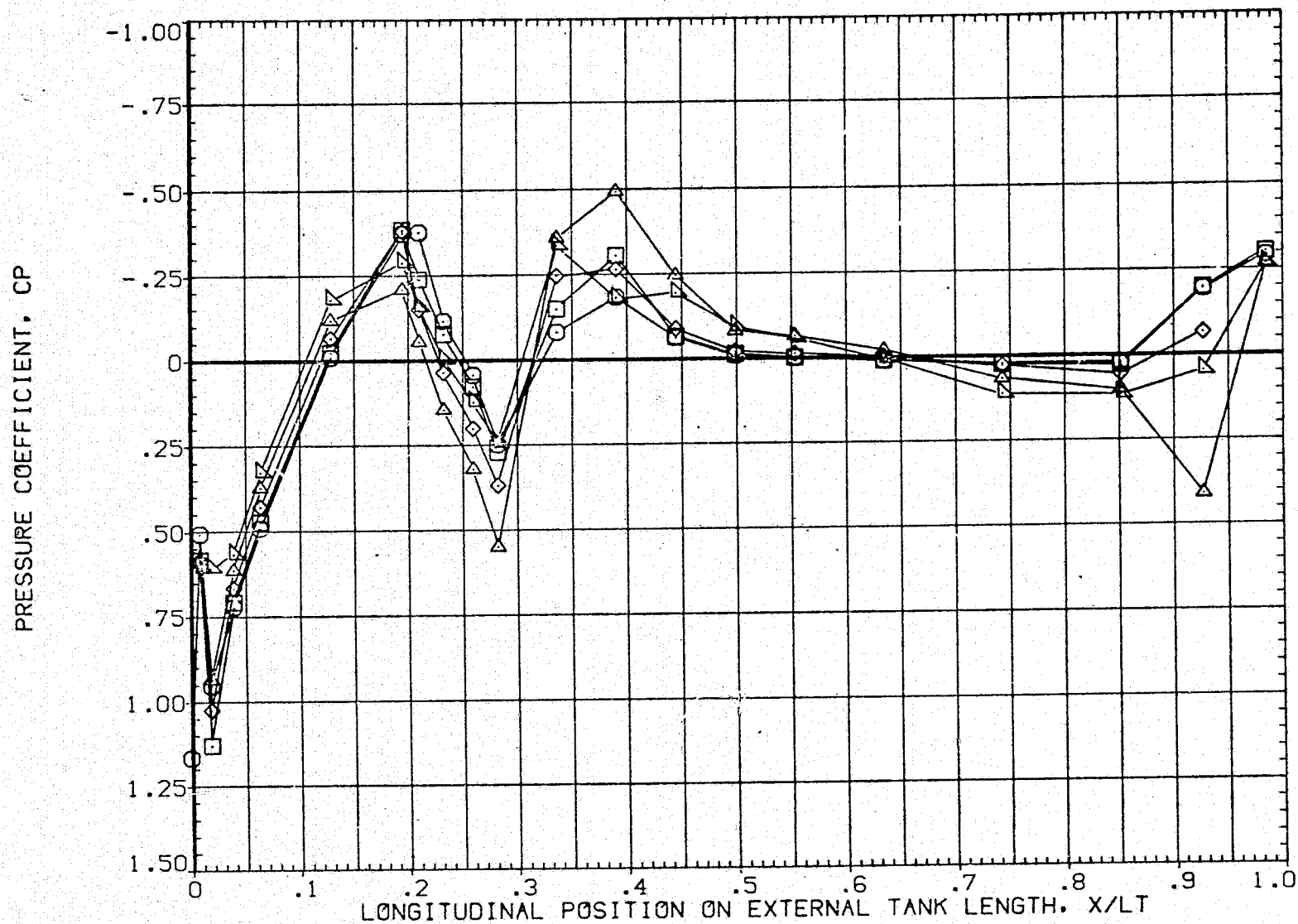


FIG. 58 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

ARC11-019 IA81 LVAP(ELHL UNSEALD) EXTERNAL TANK (IETT07)

SYMBOL	PHI	BETAT	ALPHAT
○	135.000	.000	4.000
□	147.000		
◇	162.000		
△	180.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

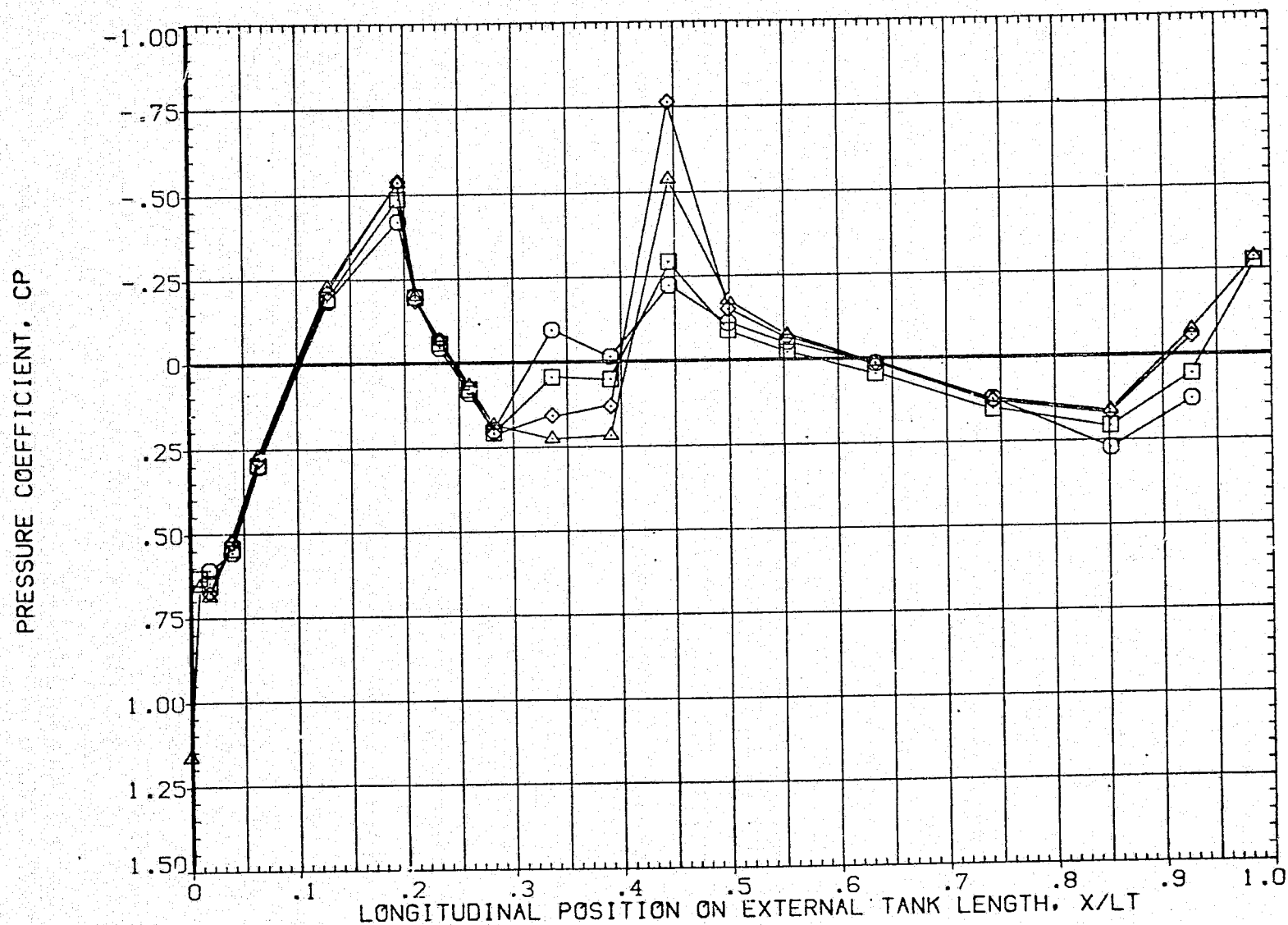


FIG. 58 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

ARC11-019 IA81 LVAP(ELHL UNSEALD) EXTERNAL TANK (IETT07)

SYMBOL	PHI	BETAT	ALPHAT
○	.000	4.000	4.000
□	30.000		
◇	60.000		
△	90.000		
▽	120.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-IB	.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

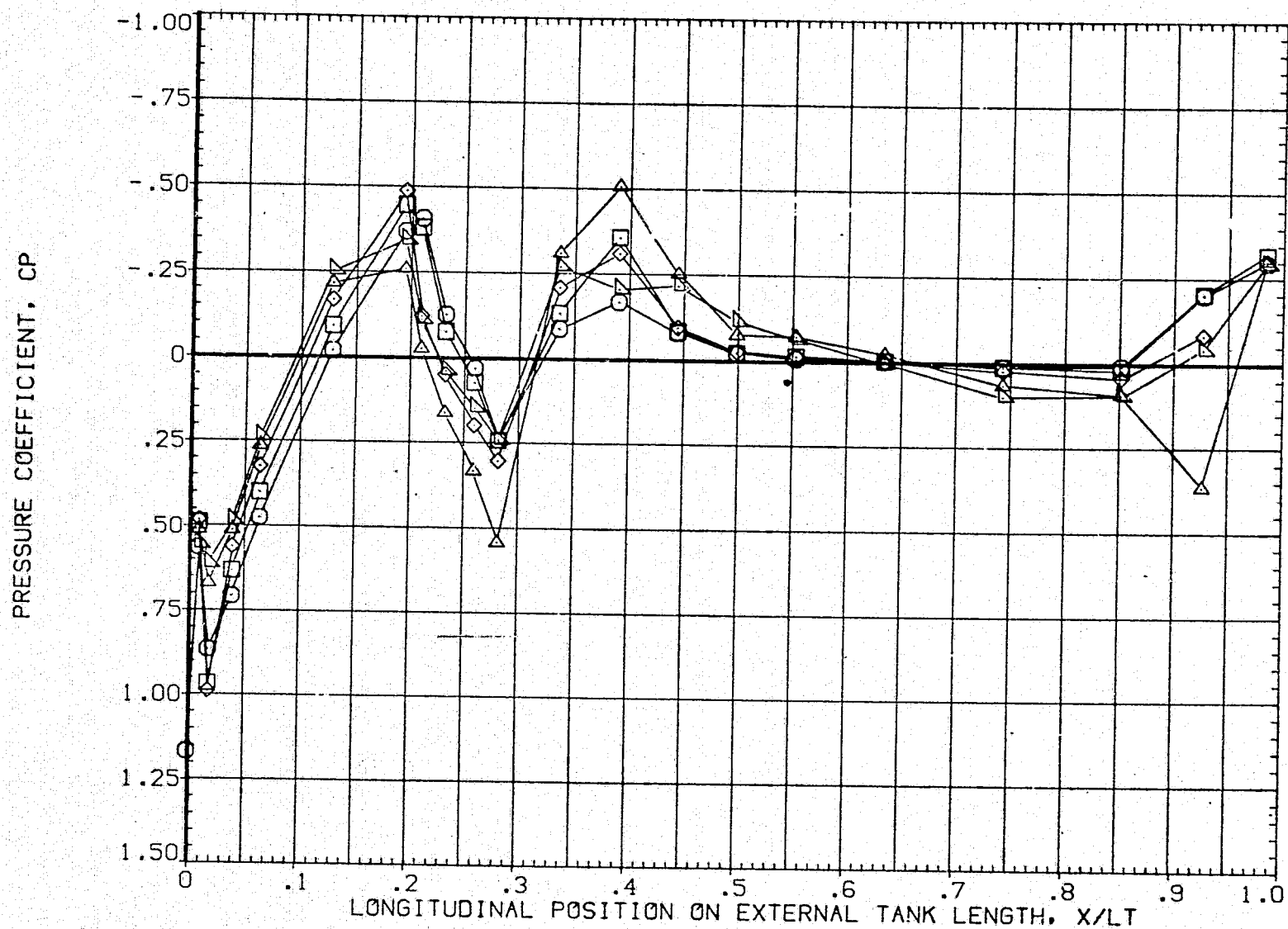


FIG. 58 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

ARC11-019 IA81 LVAP(ELHL UNSEALD) EXTERNAL TANK (IETT07)

SYMBOL	PHI	BETAT	ALPHAT
○	135.000	4.000	4.000
□	147.000		
◇	162.000		
△	180.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

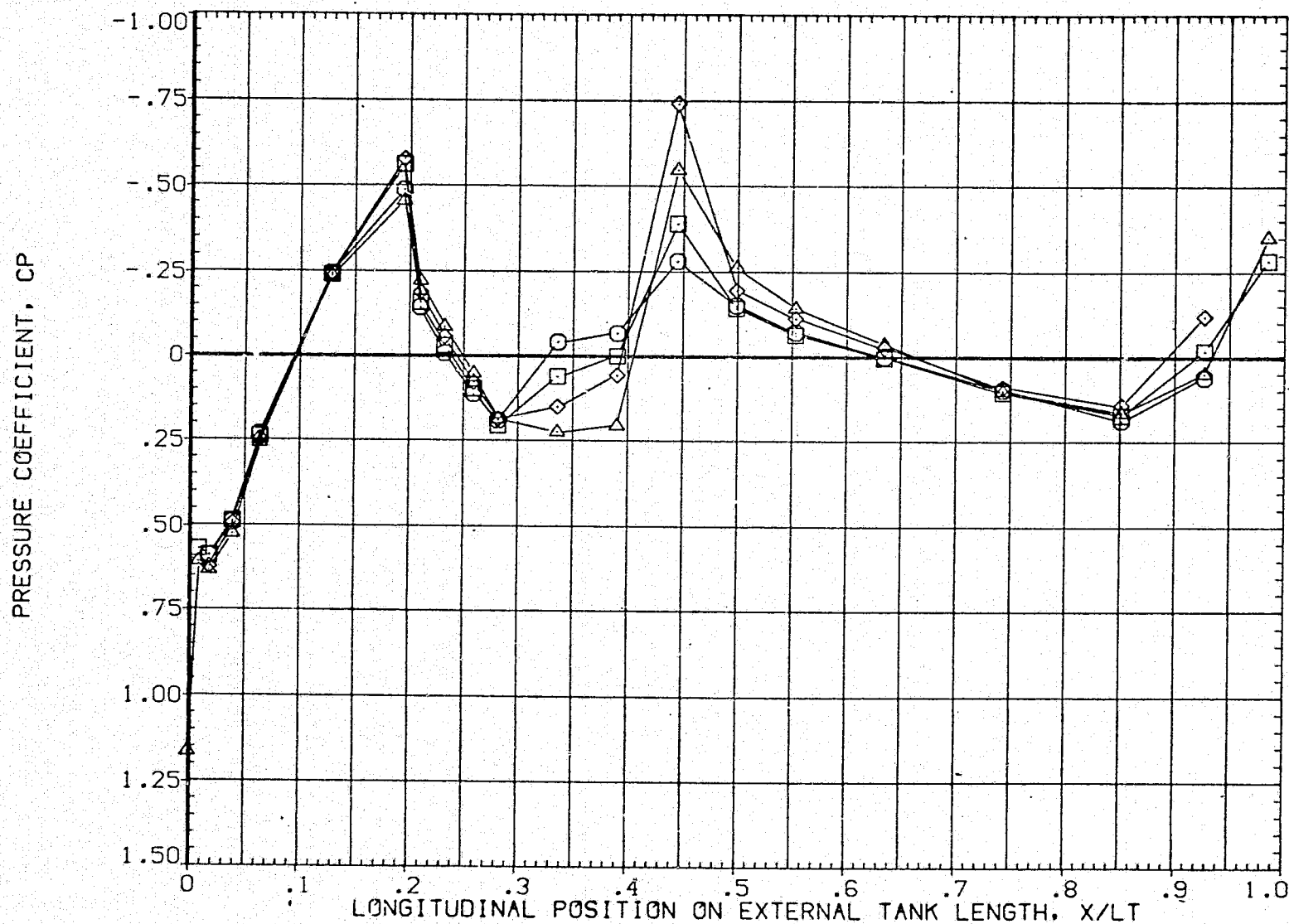


FIG. 58 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

ARC11-019 IA81 LVAP(ELHL UNSEALD) EXTERNAL TANK (IETT09)

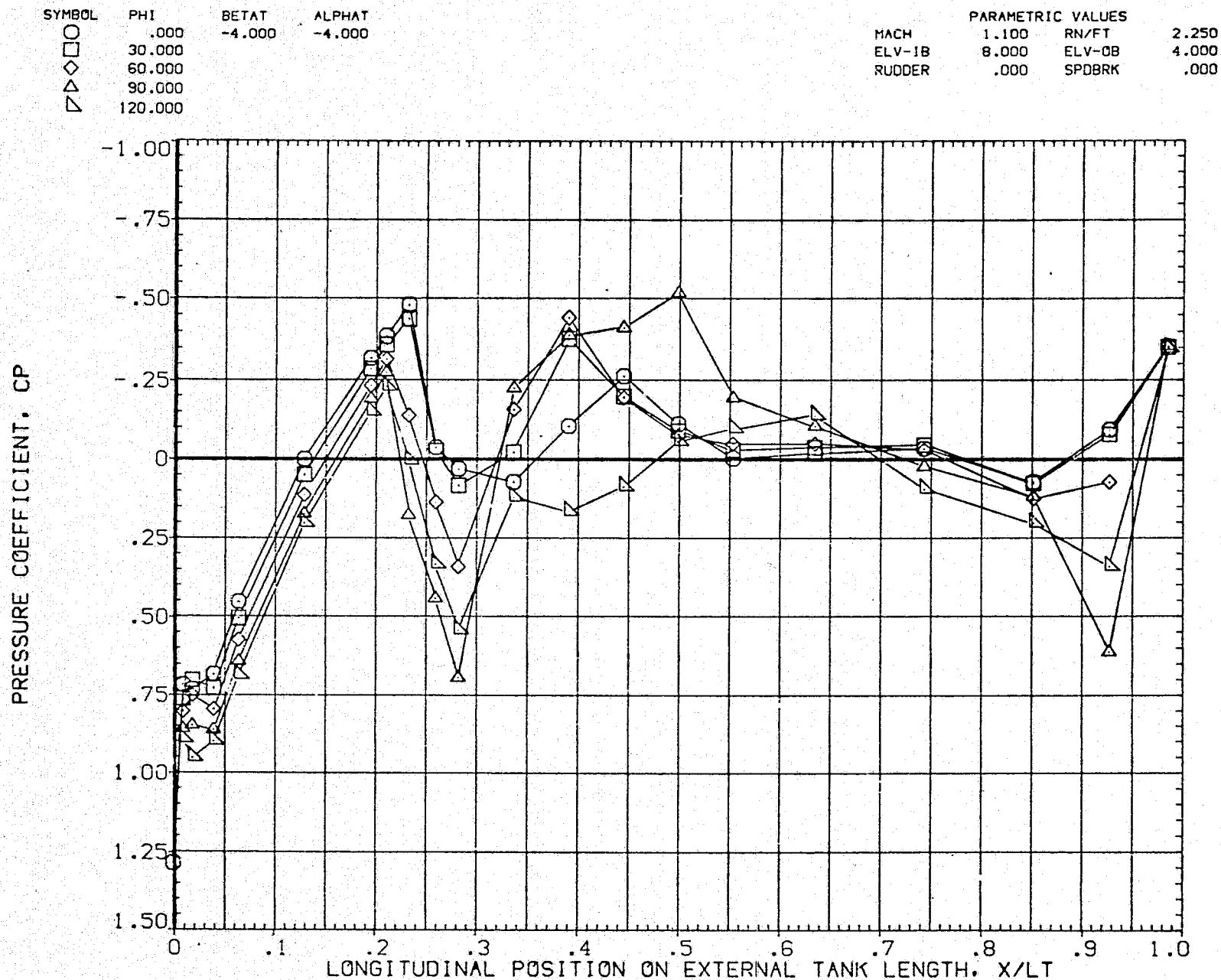


FIG. 59 EXT TANK LONG. PRESSURE DIST. ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 1.1

ARC11-019 IA81 LVAP(ELHL UNSEALD) EXTERNAL TANK (IETT09)

SYMBOL	PHI	BETAT	ALPHAT
○	135.000	-4.000	-4.000
□	147.000		
◇	162.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

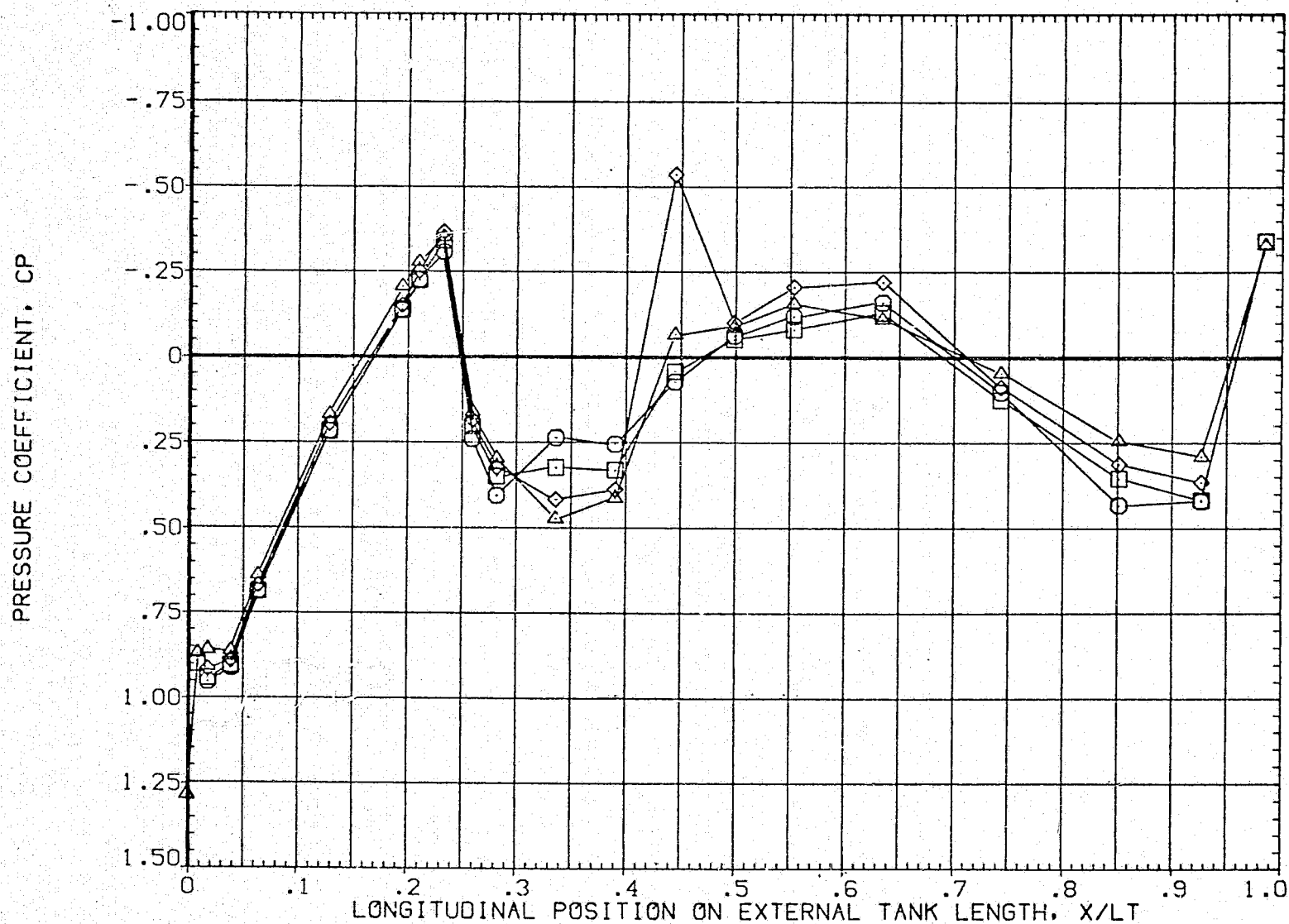


FIG. 59 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

ARC11-019 IA81 LVAP(ELHL UNSEALD) EXTERNAL TANK (IETT09)

SYMBOL	PHI	BETAT	ALPHAT
○	.000	.000	-4.000
□	30.000		
◇	60.000		
△	90.000		
▽	120.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

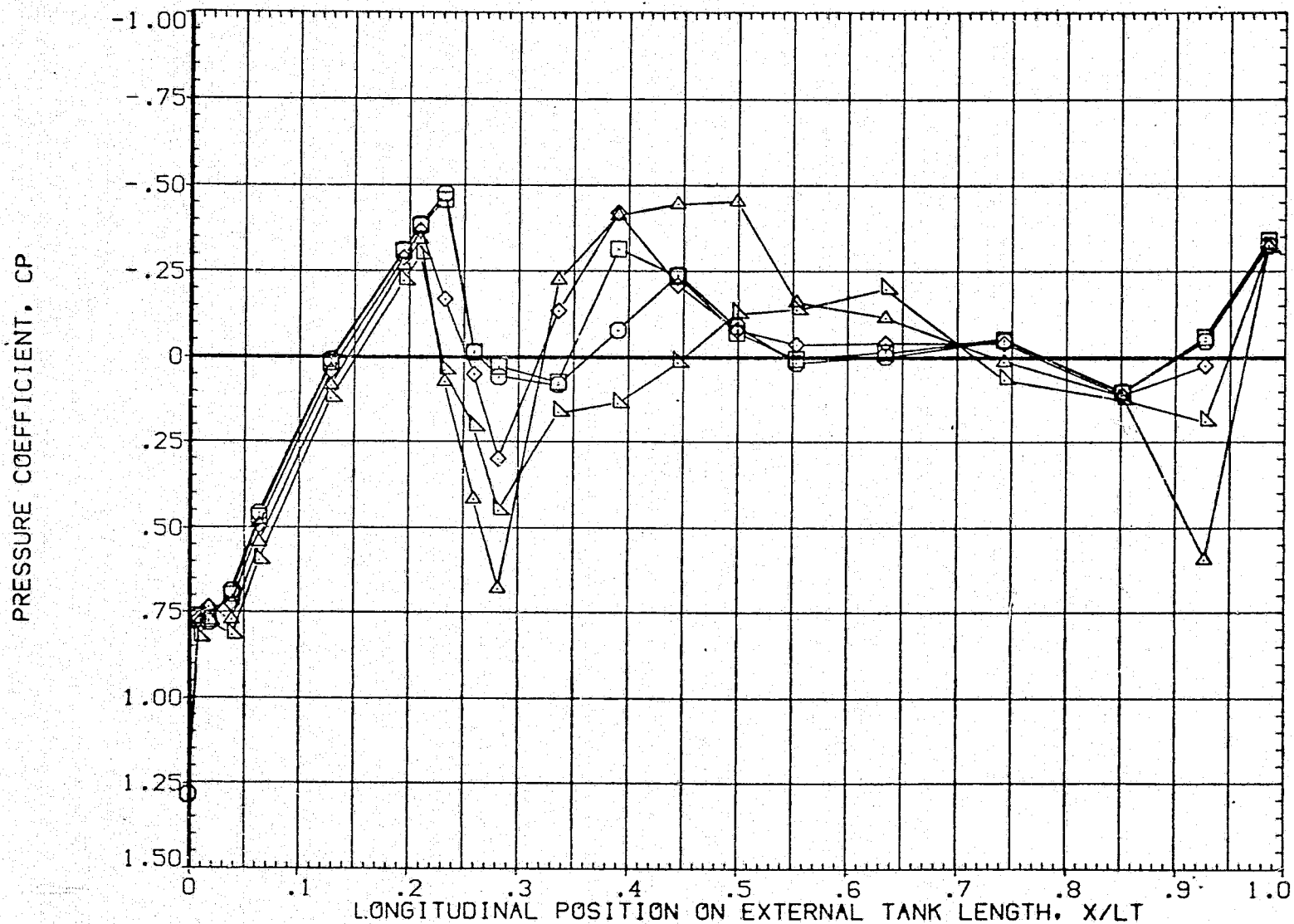


FIG. 59 EXT TANK LONG. PRESSURE DIST. ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 1.1

ARC11-019 IA81 LVAP(ELHL UNSEALD) EXTERNAL TANK (IETTO9)

SYMBOL	PHI	BETAT	ALPHAT
○	135.000	.000	-4.000
□	147.000		
◇	162.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

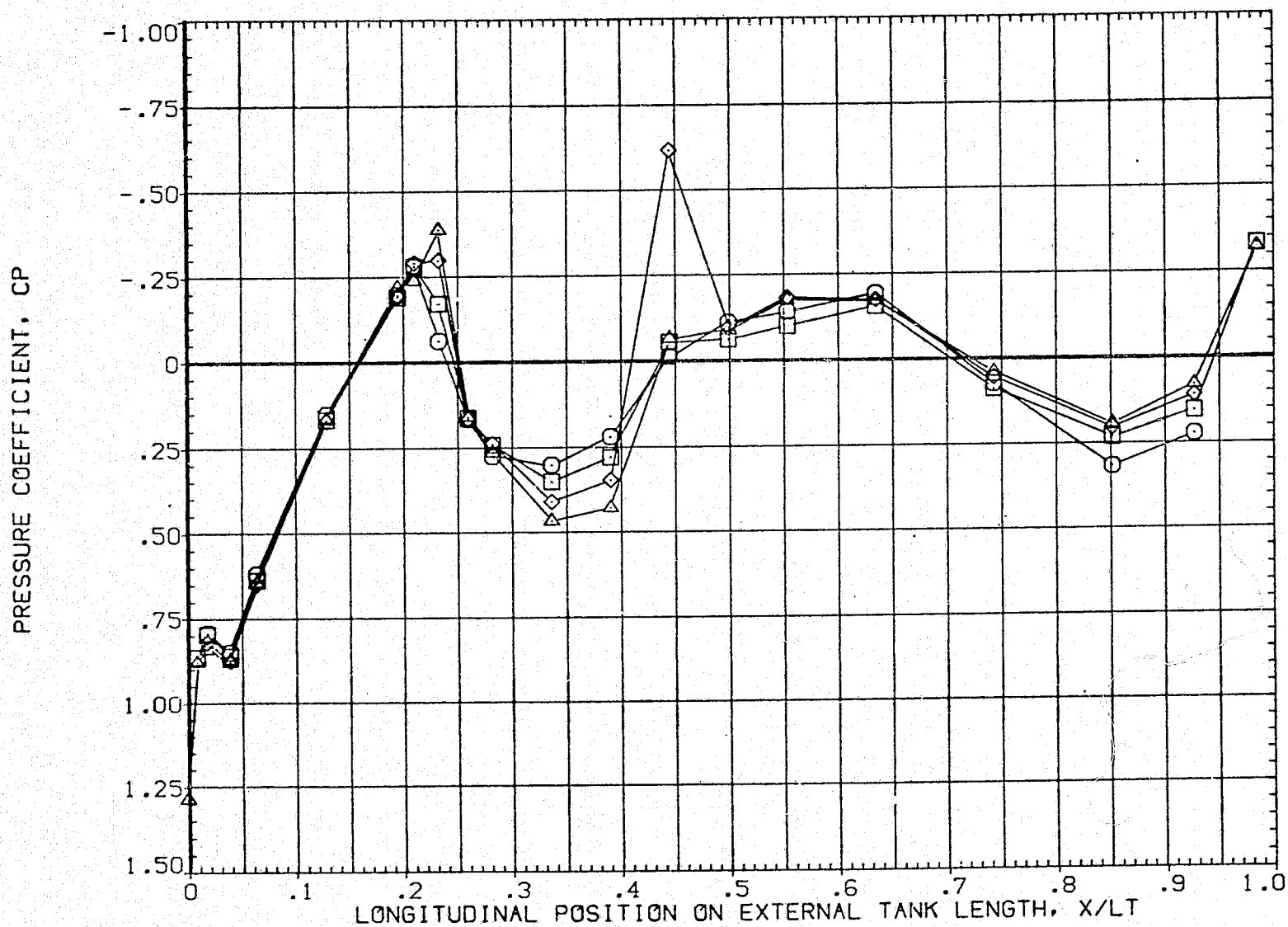


FIG. 59 EXT TANK LONG. PRESSURE DIST. ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 1.1

ARC11-019 IA81 LVAP(ELHL UNSEALED) EXTERNAL TANK (IETT09)

SYMBOL	PHI	BETAT	ALPHAT
○	.000	4.000	-4.000
□	30.000		
◇	60.000		
△	90.000		
▽	120.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

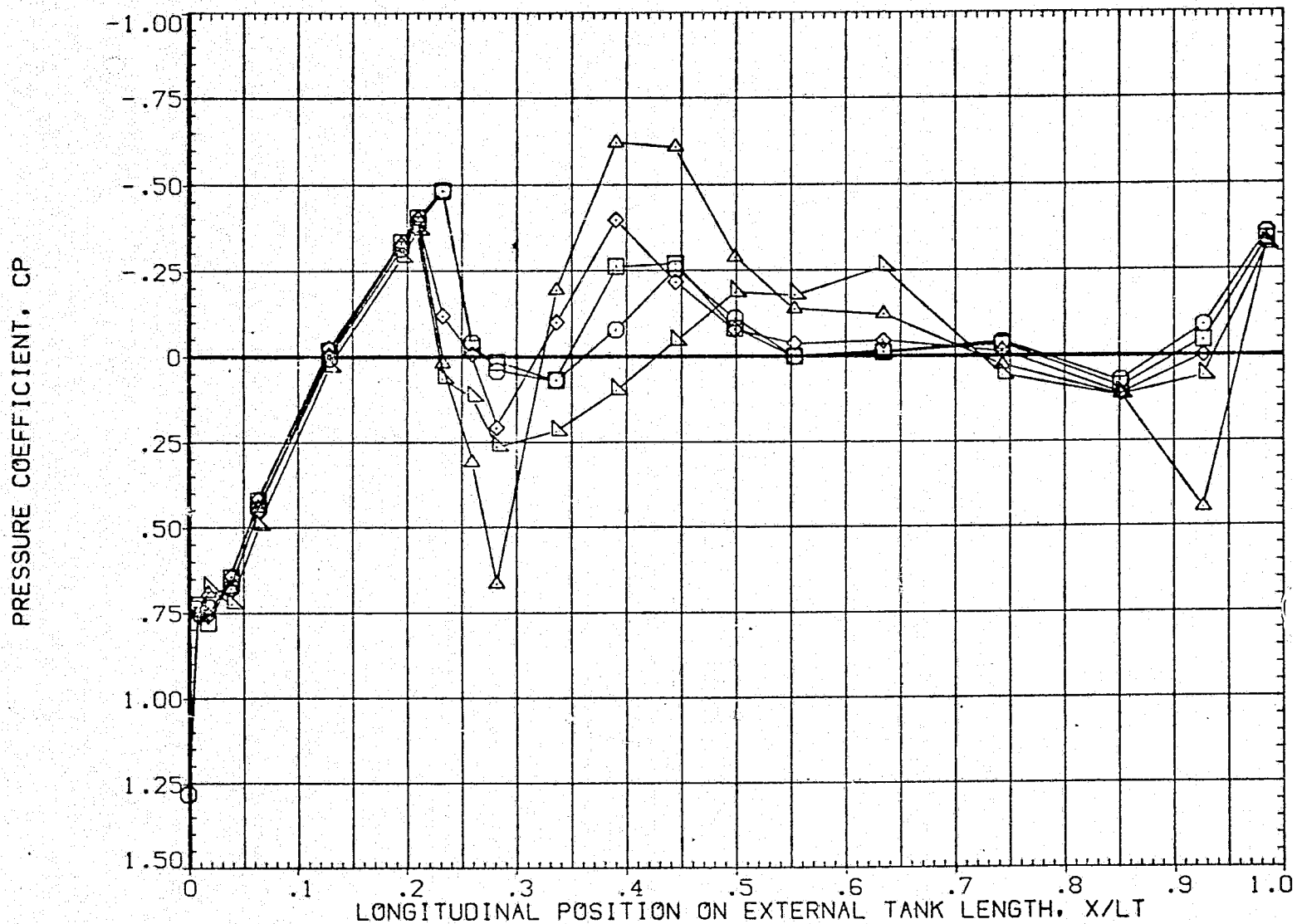


FIG. 59 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

ARC11-019 IA81 LVAP(ELHL UNSEALD) EXTERNAL TANK (IETTO9)

SYMBOL	PHI	BETAT	ALPHAT
○	135.000	4.000	-4.000
□	147.000		
◇	162.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-10	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

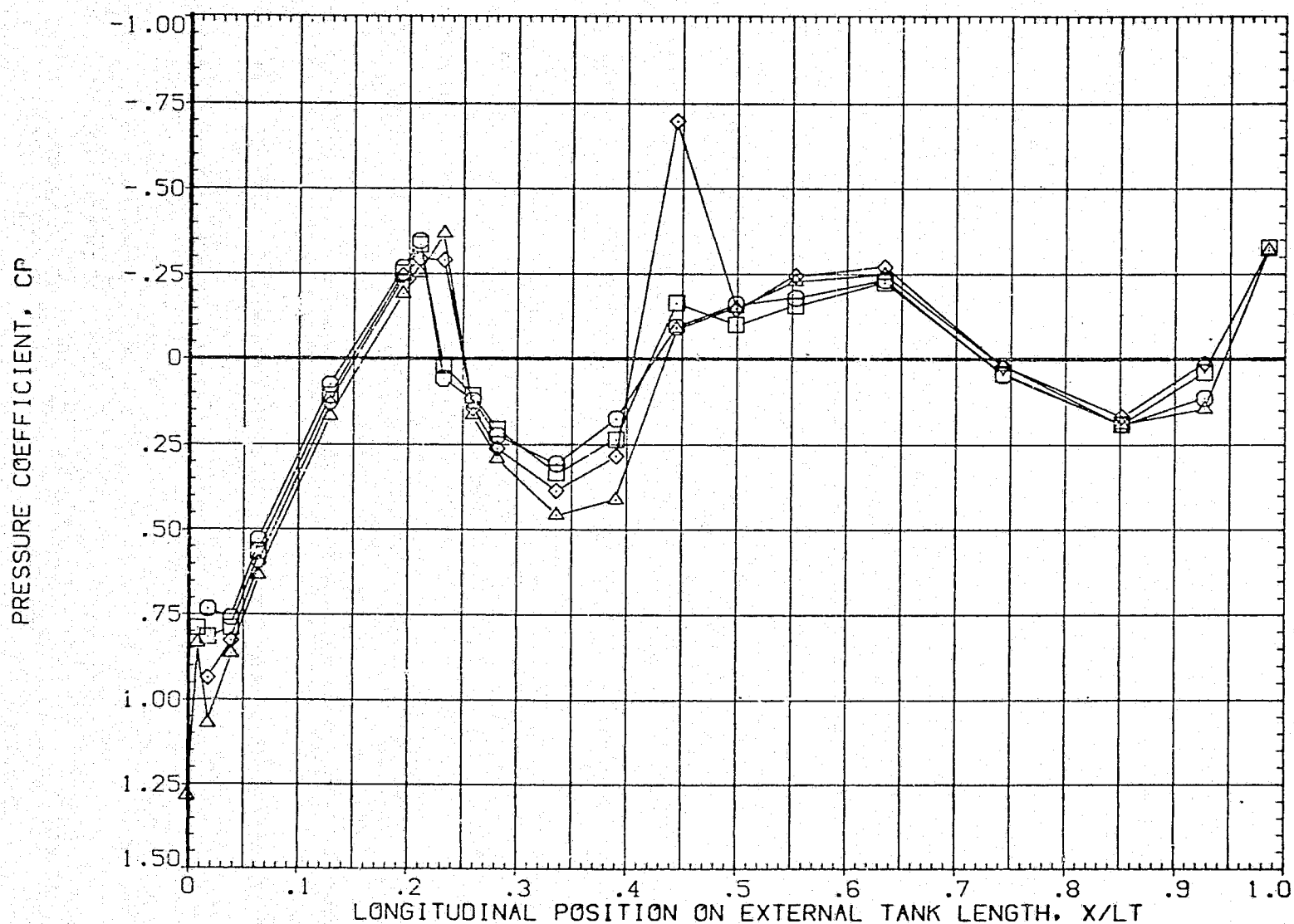


FIG. 59 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

SYMBOL	-PHI	BETAT	ALPHAT
○	.000	-4.000	.000
□	30.000		
◇	60.000		
△	90.000		
▽	120.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

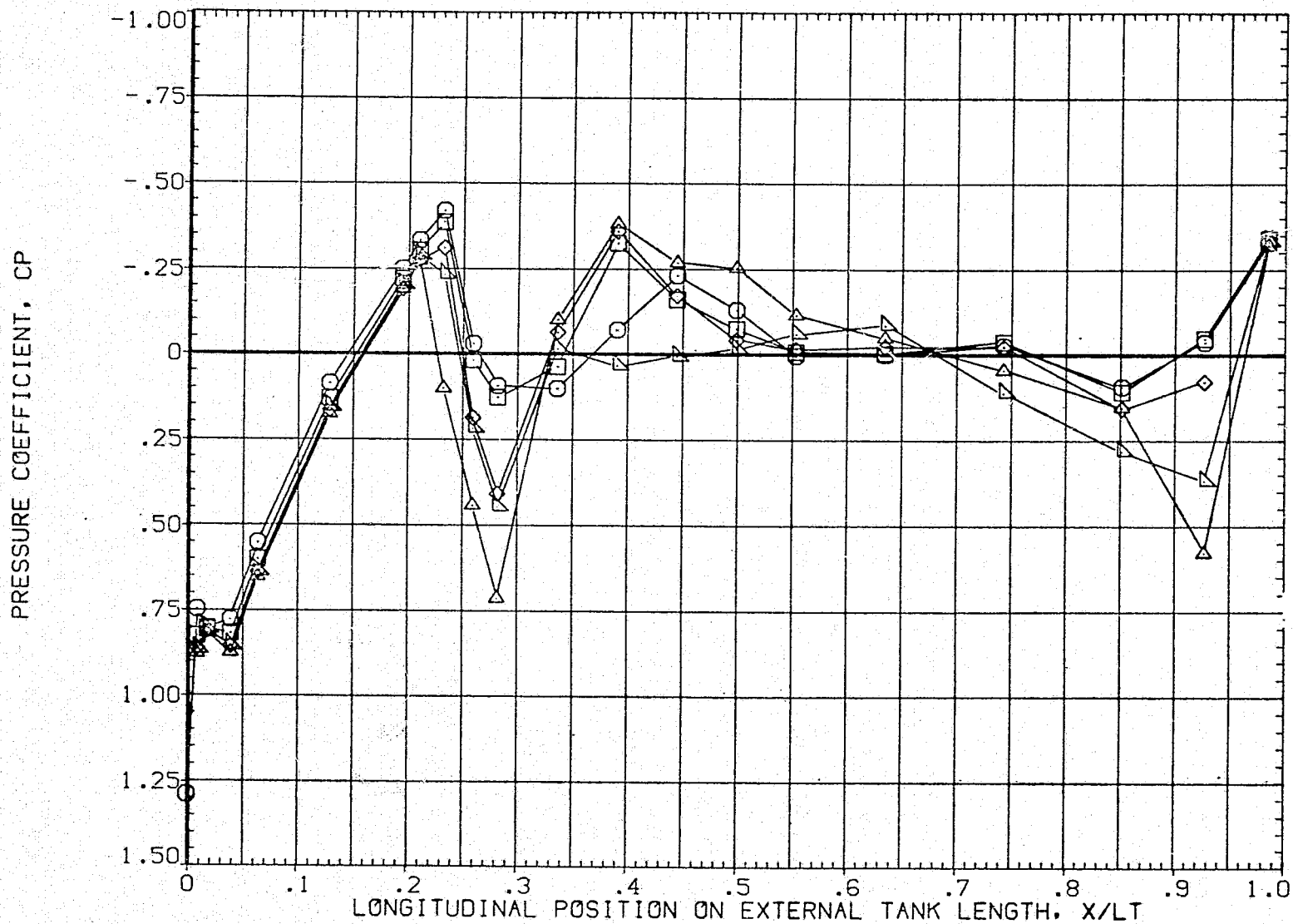


FIG. 59 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

ARC11-019 IA81 LVAP(ELHL UNSEALD) EXTERNAL TANK (IETTO9)

SYMBOL	PHI	BETAT	ALPHAT
○	135.000	-4.000	.000
□	147.000		
◇	162.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

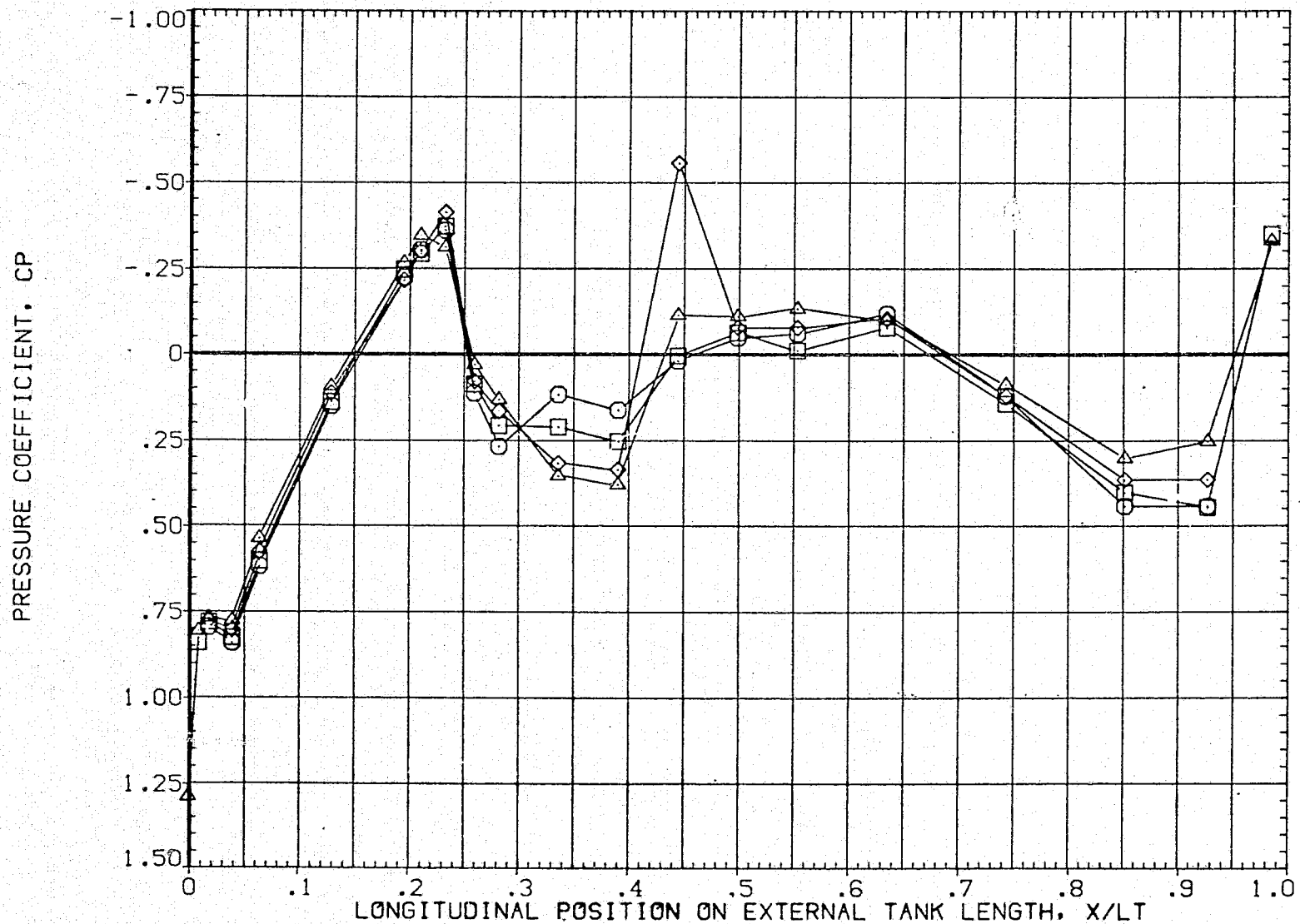


FIG. 59 EXT TANK LONG. PRESSURE DIST. ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 1.1

ARC11-019 1A81 LVAP(ELHL UNSEALED) EXTERNAL TANK (IETT09)

SYMBOL	PHI	BETAT	ALPHAT
○	.000	.000	.000
□	30.000		
◇	60.000		
△	90.000		
▽	120.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

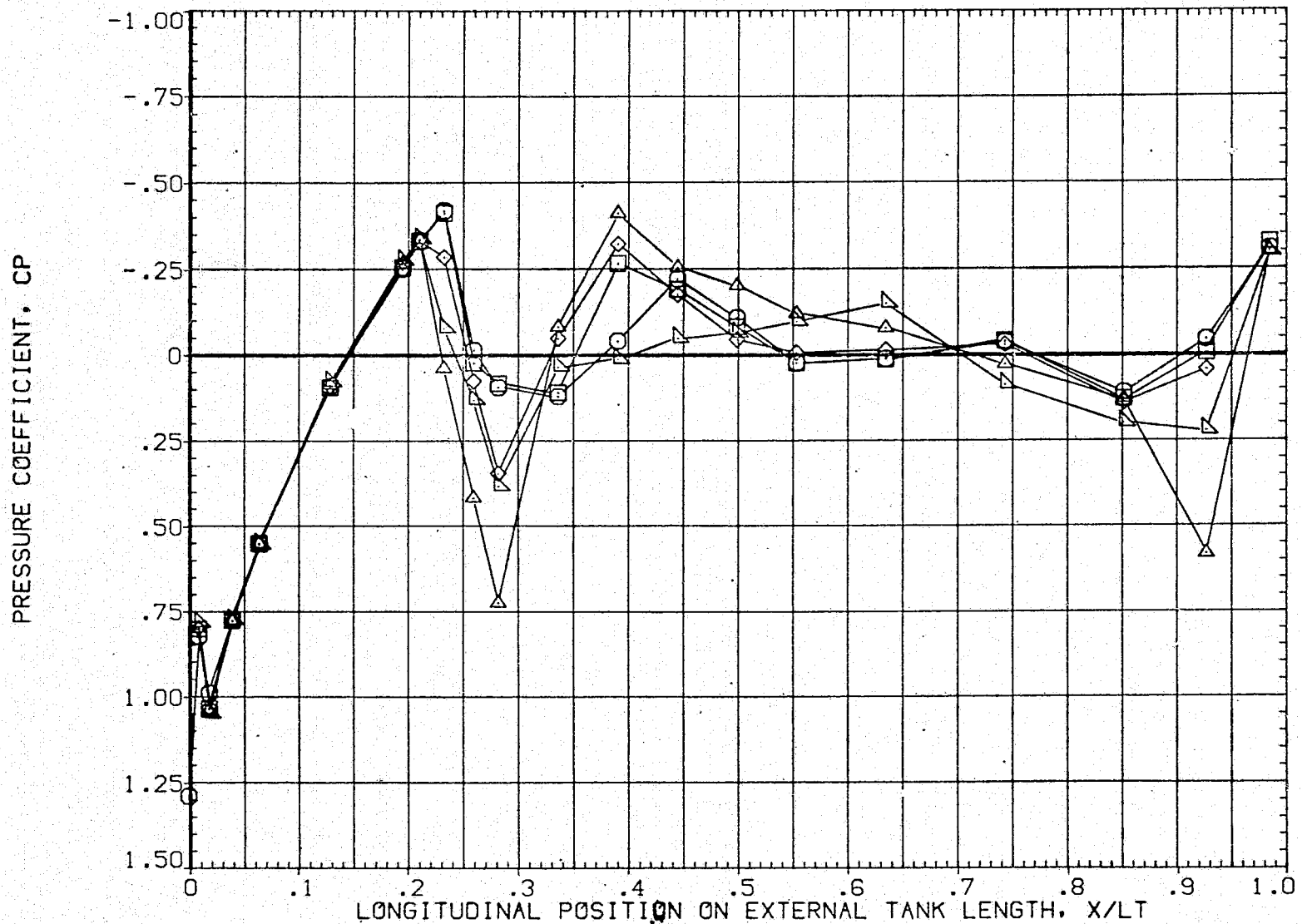


FIG. 59 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

ARC11-019 IA81 LVAP(ELHL UNSEALD) EXTERNAL TANK (IETT09)

SYMBOL	PHI	BETAT	ALPHAT
○	135.000	.000	.000
□	147.000		
◇	162.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

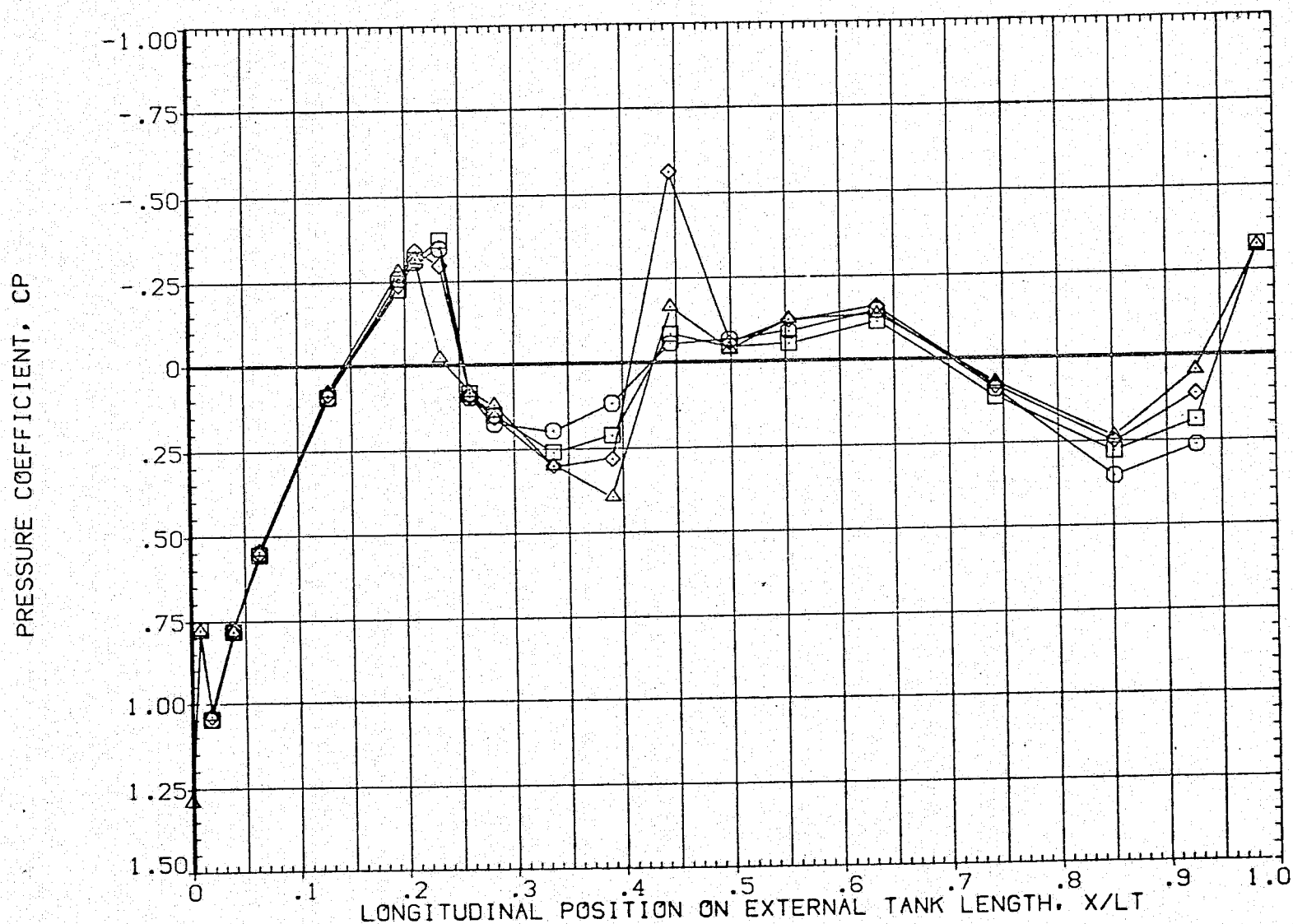


FIG. 59 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

ARC11-019 IA81 LVAP(ELHL UNSEALD) EXTERNAL TANK (IETT09)

SYMBOL	PHI	BETAT	ALPHAT
○	.000	4.000	.000
□	30.000		
◇	60.000		
△	90.000		
▽	120.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

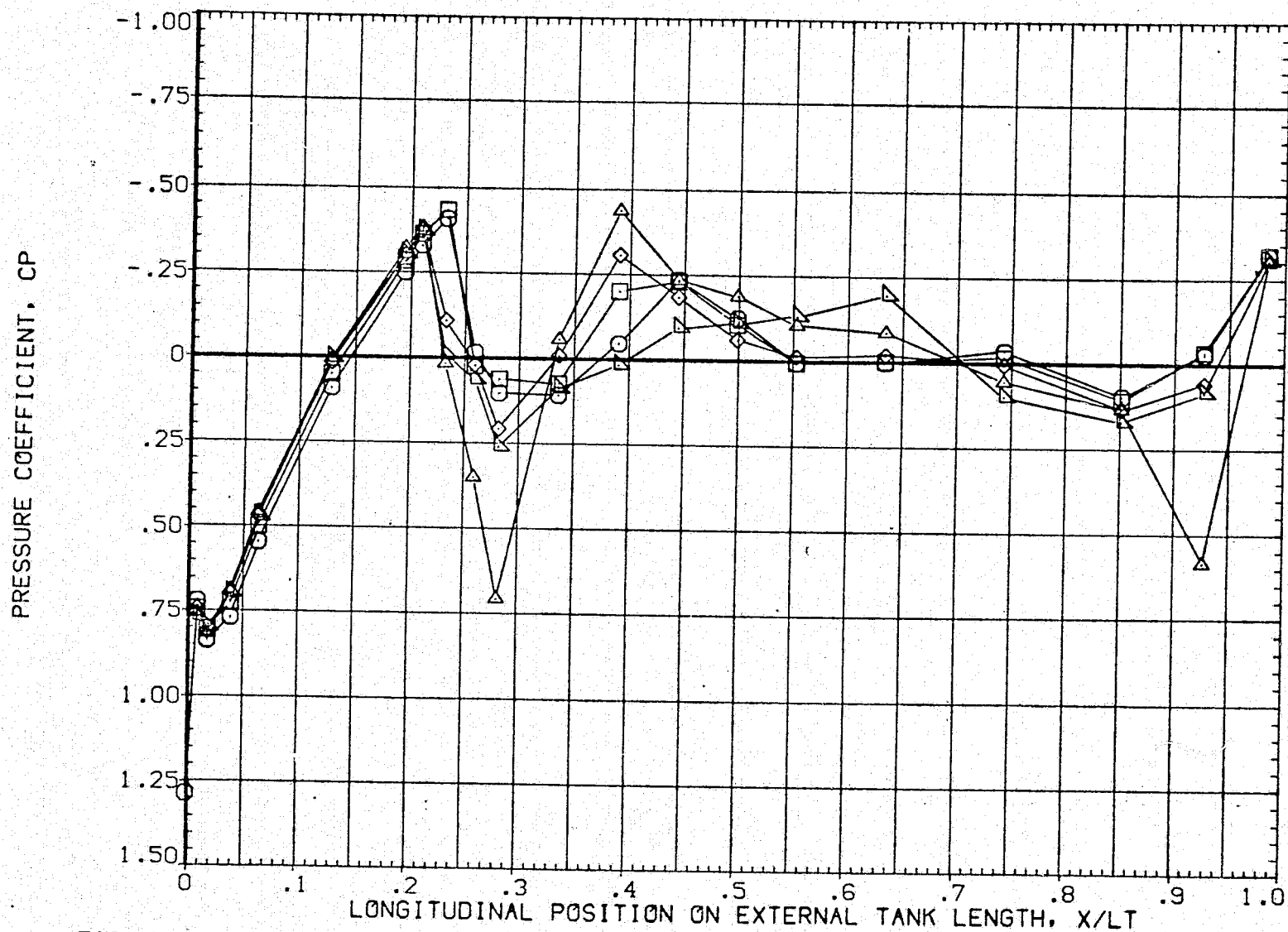


FIG. 59 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

ARC11-019 IA81 LVAP(ELHL UNSEALD) EXTERNAL TANK (IETT09)

SYMBOL	PHI	BETAT	ALPHAT
○	135.000	4.000	.000
□	147.000		
◇	162.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

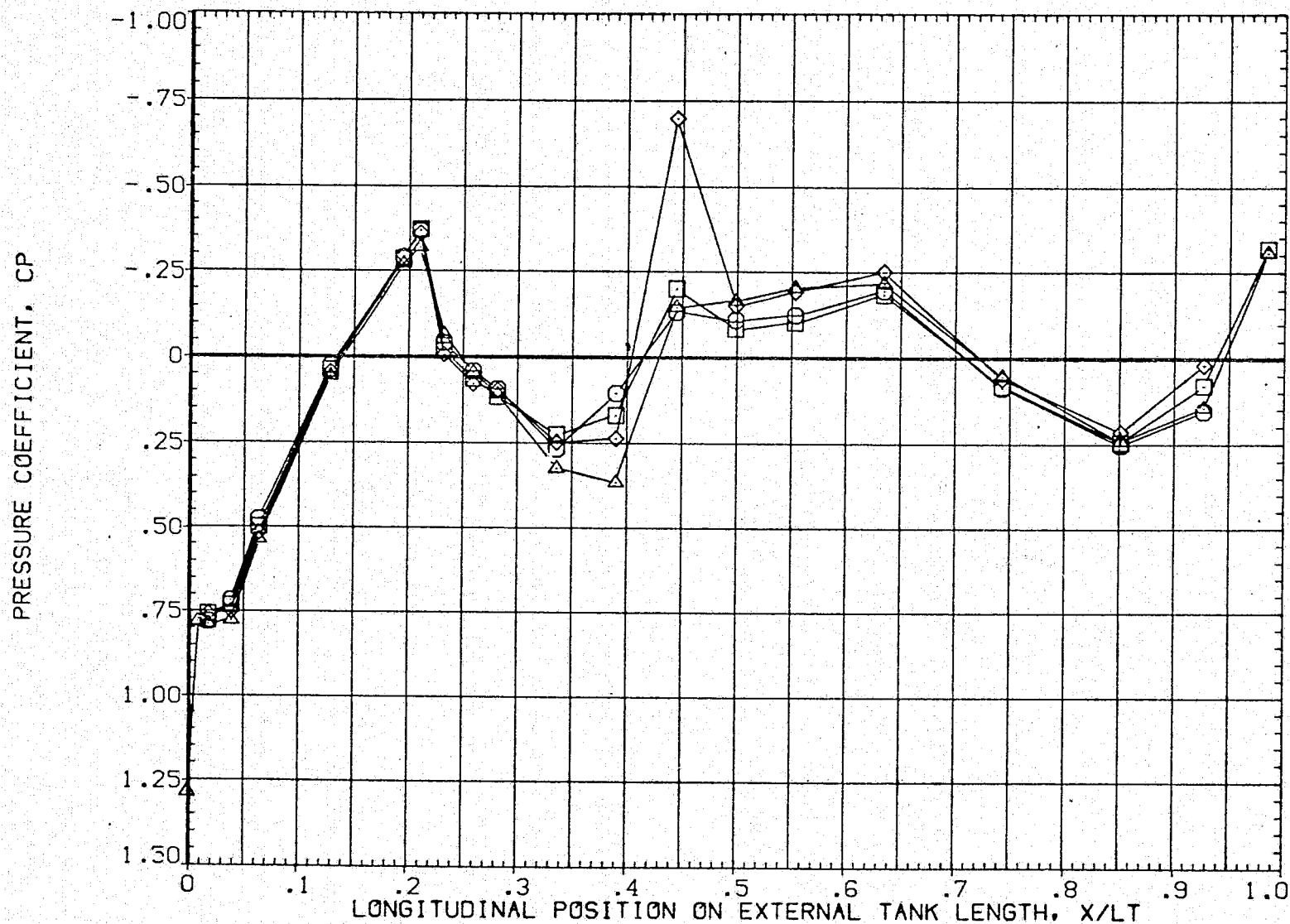


FIG. 59 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

AKC11-019 1A81 LVAP(ELHL UNSEALD) EXTERNAL TANK (IETT09)

SYMBOL	PHI	BETAT	ALPHAT
○	.000	-4.000	4.000
□	30.000		
◇	60.000		
△	90.000		
▽	120.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.060

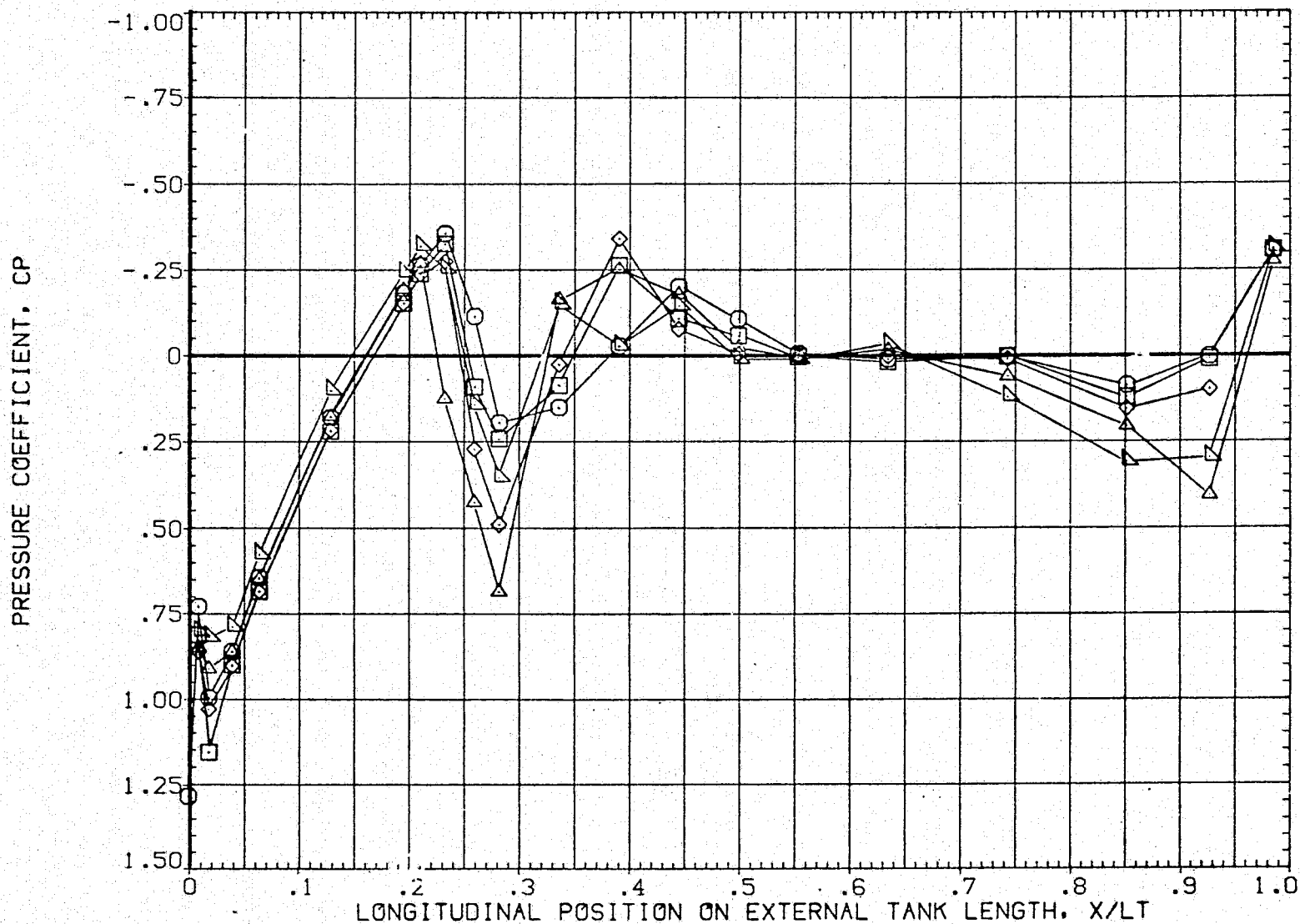


FIG. 59 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

ARC11-019 IA81 LVAP(ELHL UNSEALD) EXTERNAL TANK (IETT09)

SYMBOL	PHI	BETAT	ALPHAT
○	135.000	-4.000	4.000
□	147.000		
◇	162.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

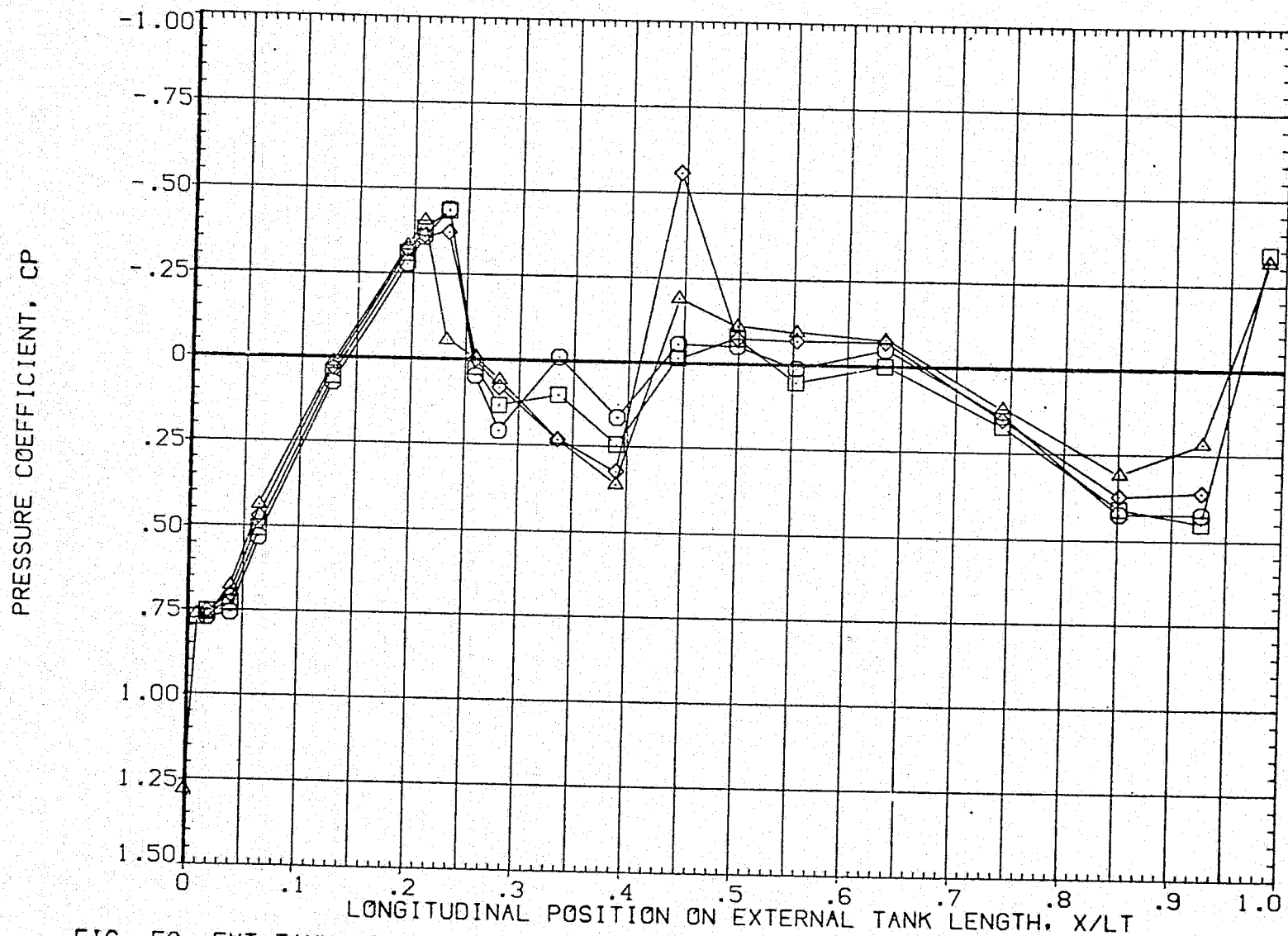


FIG. 59 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

ARC11-019 IA81 LVAP(ELHL UNSEALD) EXTERNAL TANK (IETTO9)

SYMBOL	PHI	BETAT	ALPHAT
○	.000	.000	4.000
□	30.000		
◇	60.000		
△	90.000		
▽	120.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-18	8.000	ELV-C9	4.000
RUDDER	.000	SPDBRK	.000

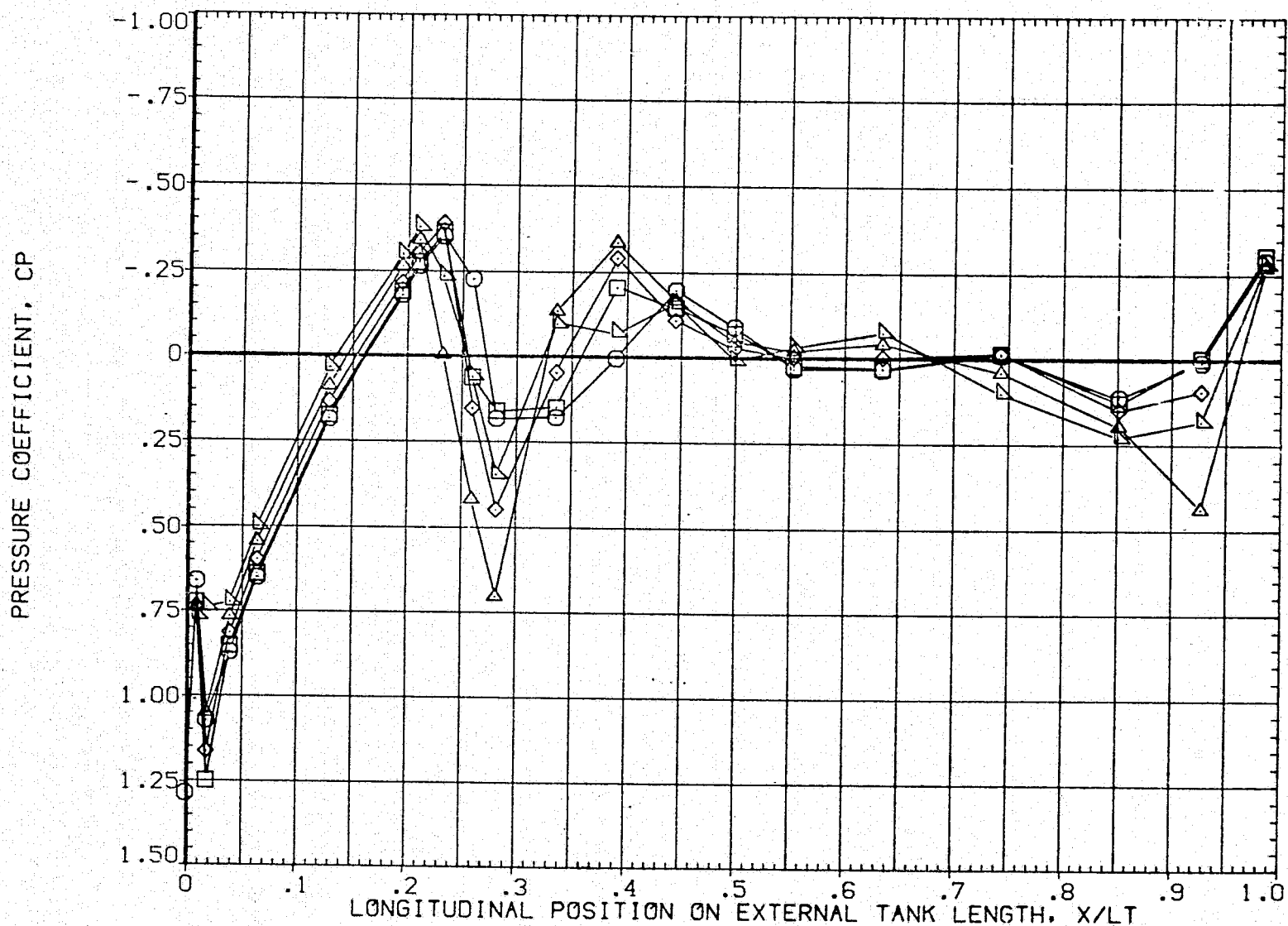


FIG. 59 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

ARC11-019 IA81 LVAP(ELHL UNSEALD) EXTERNAL TANK (IETT09)

SYMBOL	PHI	BETAT	ALPHAT
○	135.000	.000	4.000
□	147.000		
◇	162.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

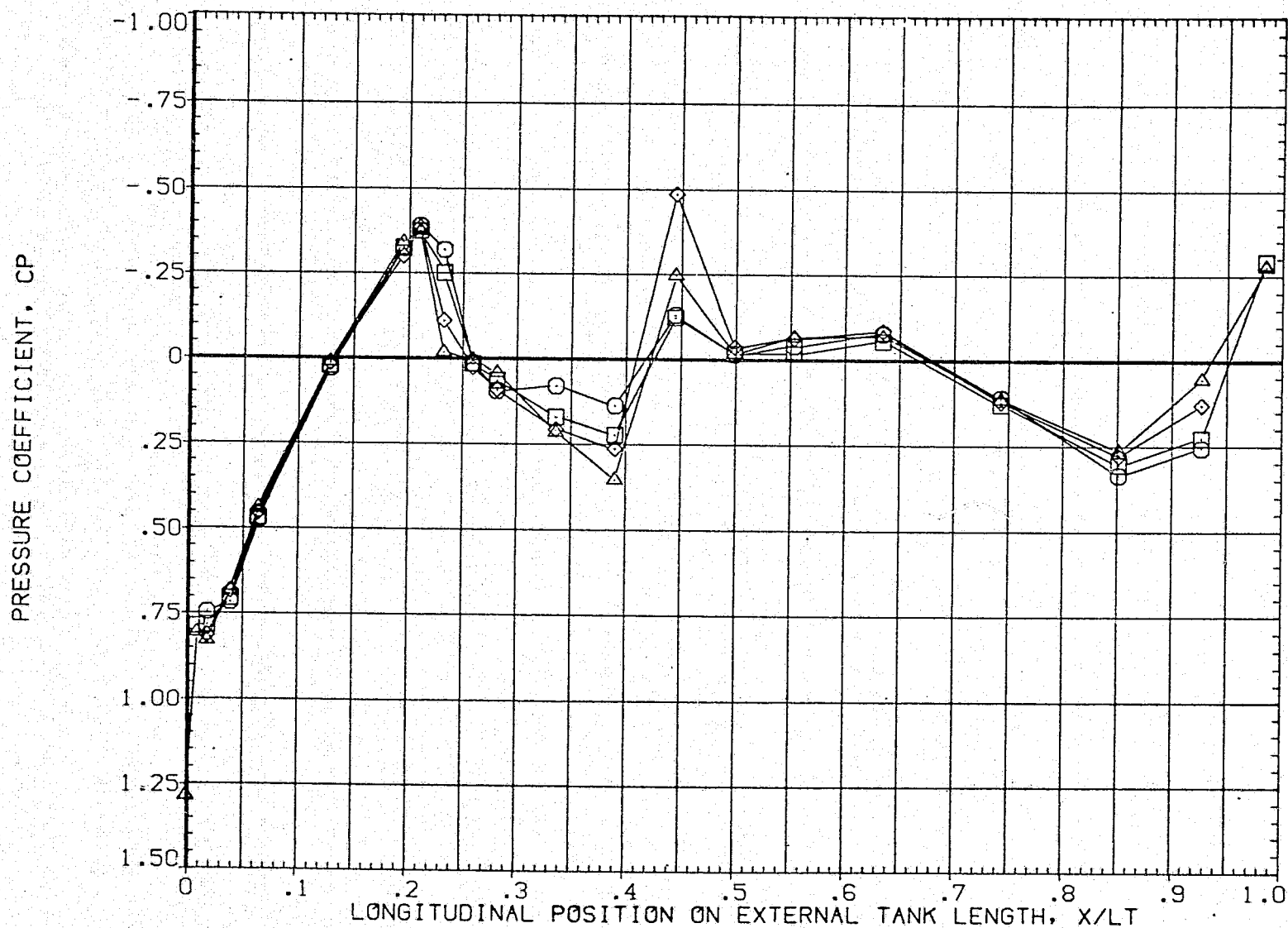


FIG. 59 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

ARC11-019 1A81 LVAP(ELHL UNSEALD) EXTERNAL TANK (IETT09)

SYMBOL	PHI	BETAT	ALPHAT
○	.000	4.000	4.000
◇	30.000		
△	60.000		
▽	90.000		
◁	120.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

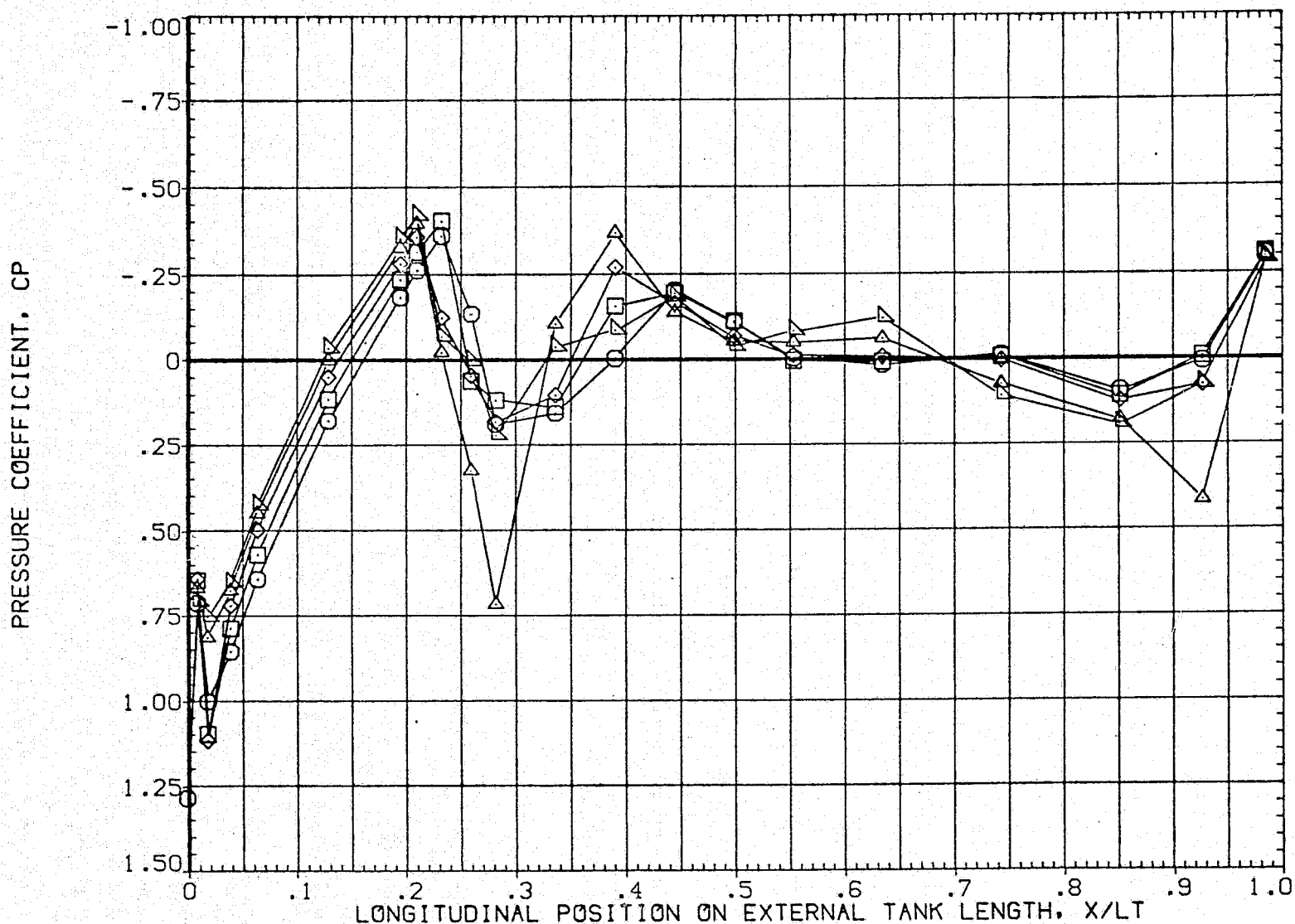


FIG. 59 EXT TANK LONG. PRESSURE DIST. ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 1.1

ARC11-019 IA81 LVAP(ELHL UNSEALD) EXTERNAL TANK. (IETTO9)

SYMBOL	PHI	BETAT	ALPHAT
○	135.000	4.000	4.000
□	147.000		
◇	162.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

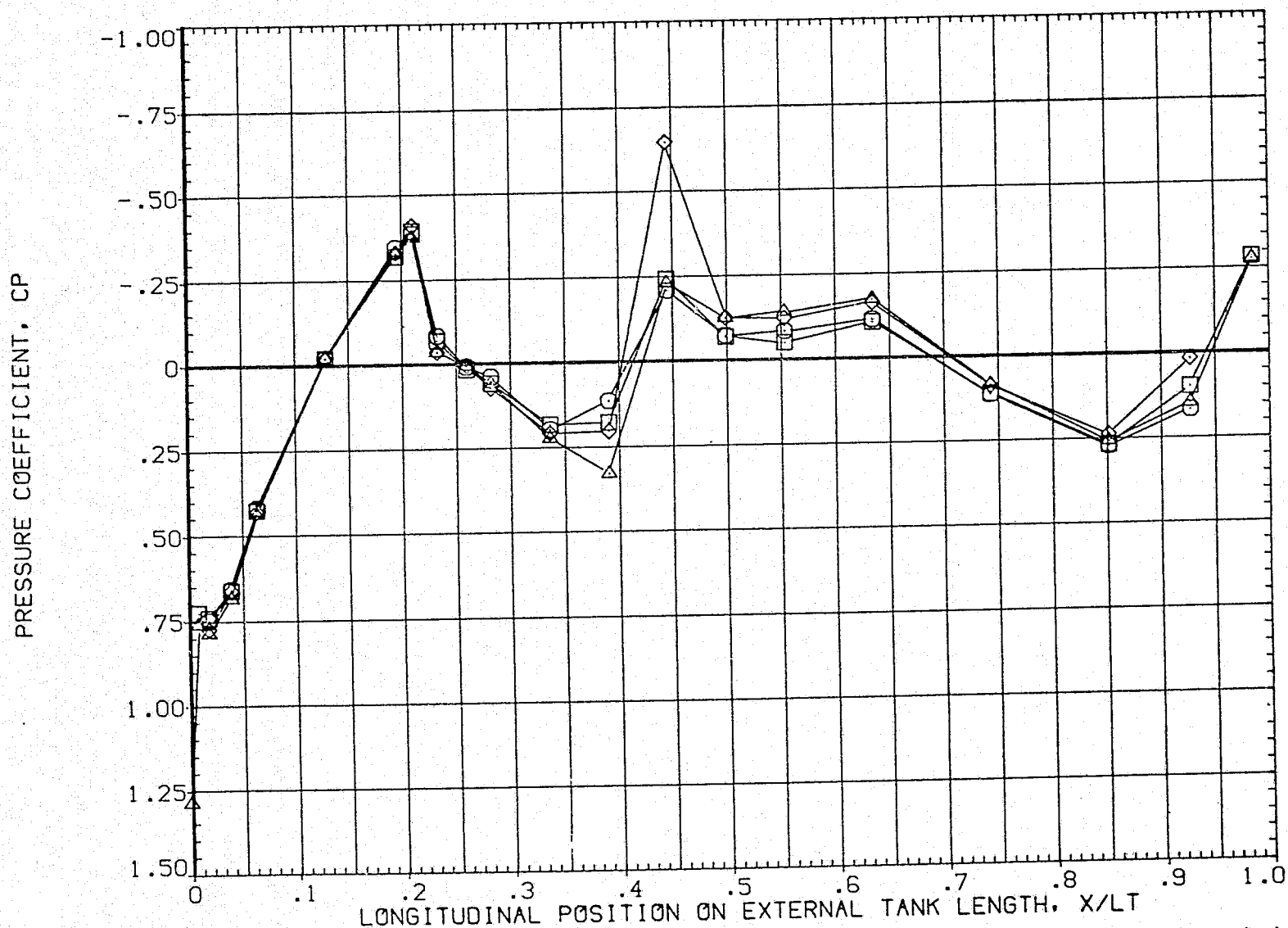


FIG. 59 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

ARC11-019 IA81 LVAP(ELHL SEALED) EXTERNAL TANK (IETT11)

SYMBOL	PHI	BETAT	ALPHAT
○	.000	-4.000	-4.000
□	30.000		
◇	60.000		
△	90.000		
▽	120.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

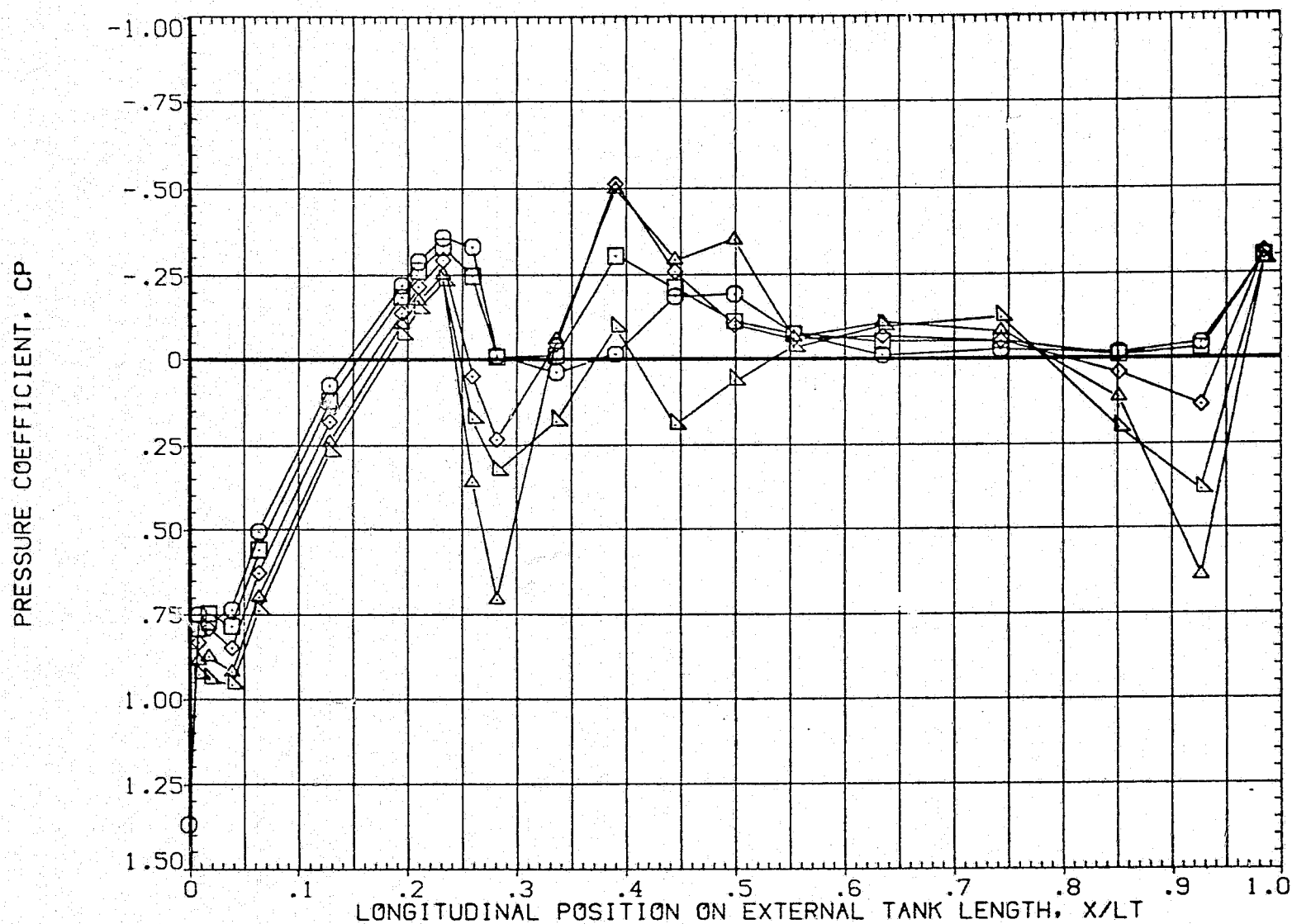


FIG. 60 EXT TANK LONG. PRESSURE DIST. ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 1.25

ARC11-019 IA81 LVAP(ELHL SEALED) EXTERNAL TANK (IETT11)

SYMBOL	PHI	BETAT	ALPHAT
○	135.000	-4.000	-4.000
□	147.000		
◇	162.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

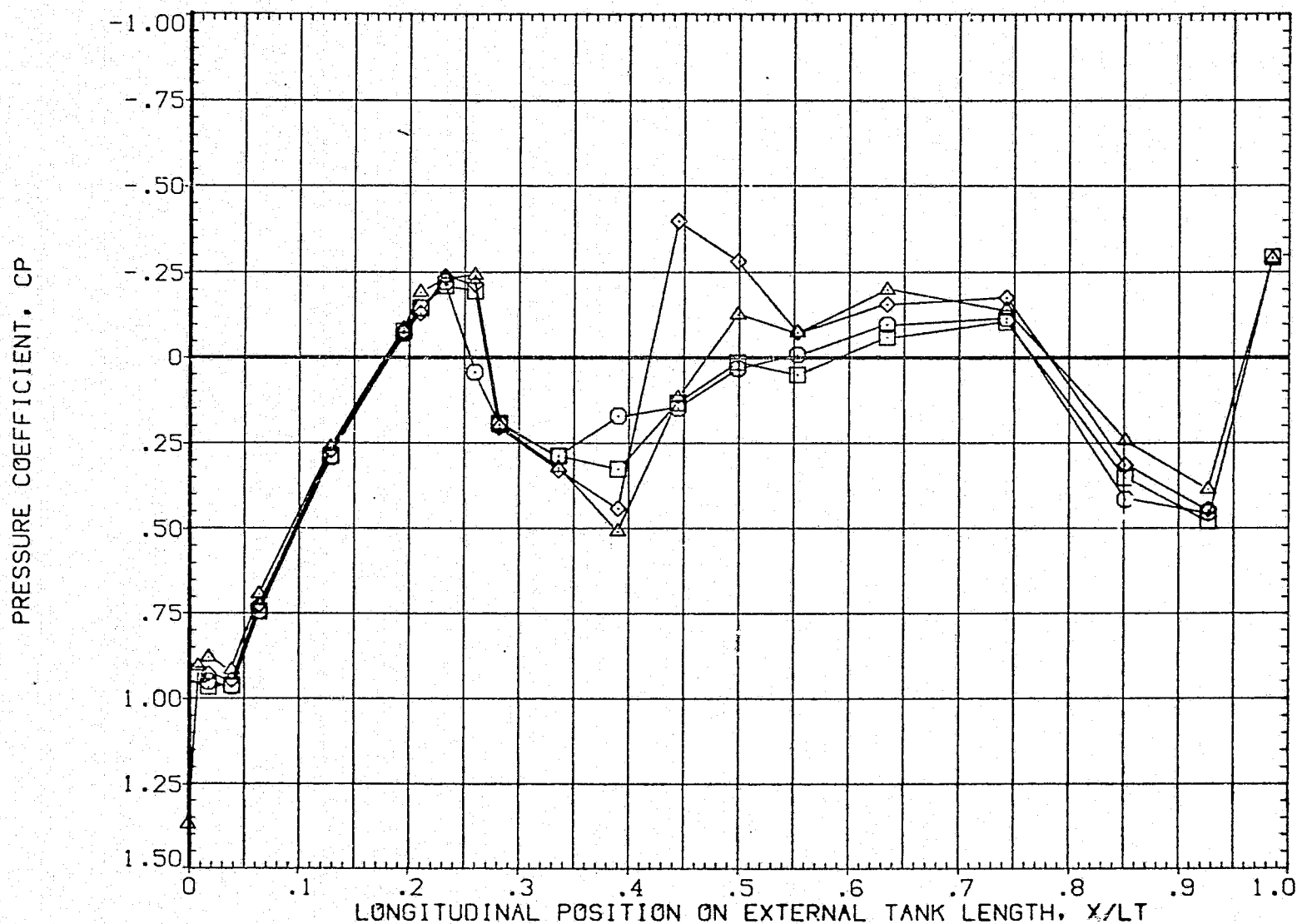


FIG. 60 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

ARC11-019 IA81 LVAP(ELHL SEALED) EXTERNAL TANK (IETT11)

SYMBOL	PHI	BETAT	ALPHAT
○	.000	.000	-4.000
□	30.000		
◇	60.000		
△	90.000		
▽	120.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

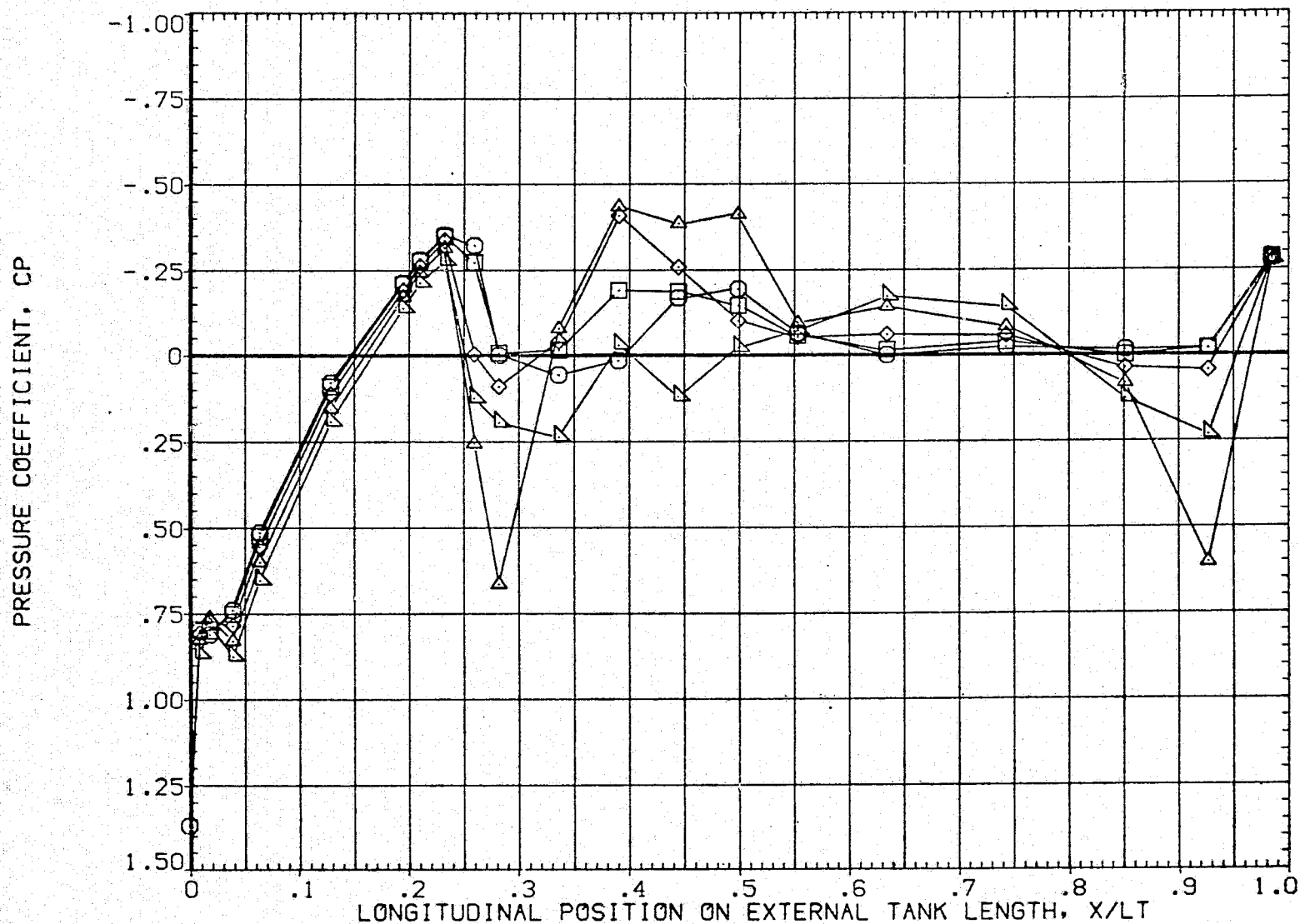


FIG. 60 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

ARC11-019 IA81 LVAP(ELHL SEALED) EXTERNAL TANK (IETT11)

SYMBOL	PHI	BETAT	ALPHAT
○	135.000	.000	-4.000
□	147.000		
◇	162.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

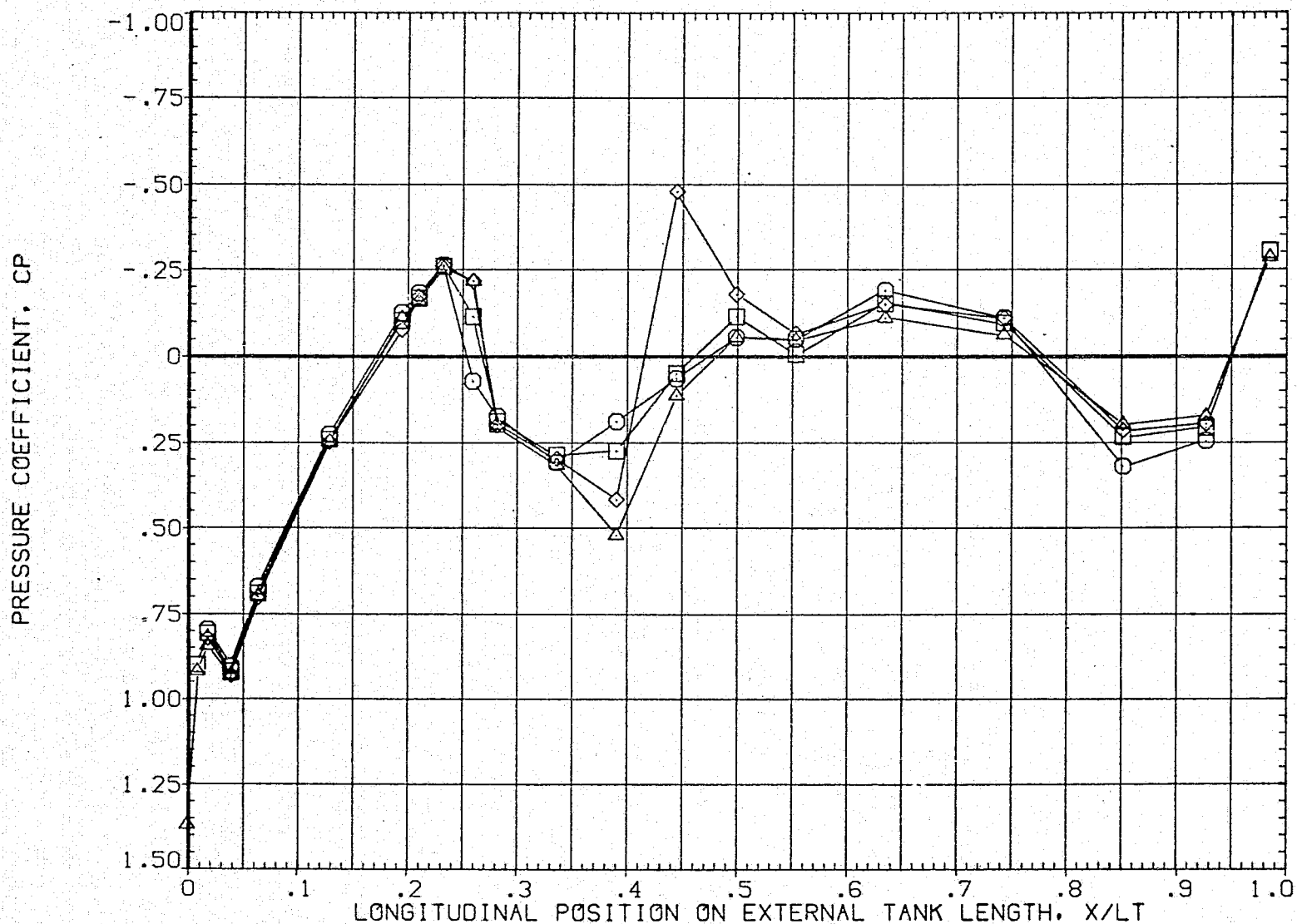


FIG. 60 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

ARC11-019 IA81 LVAP(ELHL SEALED) EXTERNAL TANK (IETT11)

SYMBOL	PHI	BETAT	ALPHAT
○	.000	4.000	-4.000
□	30.000		
◇	60.000		
△	90.000		
▽	120.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

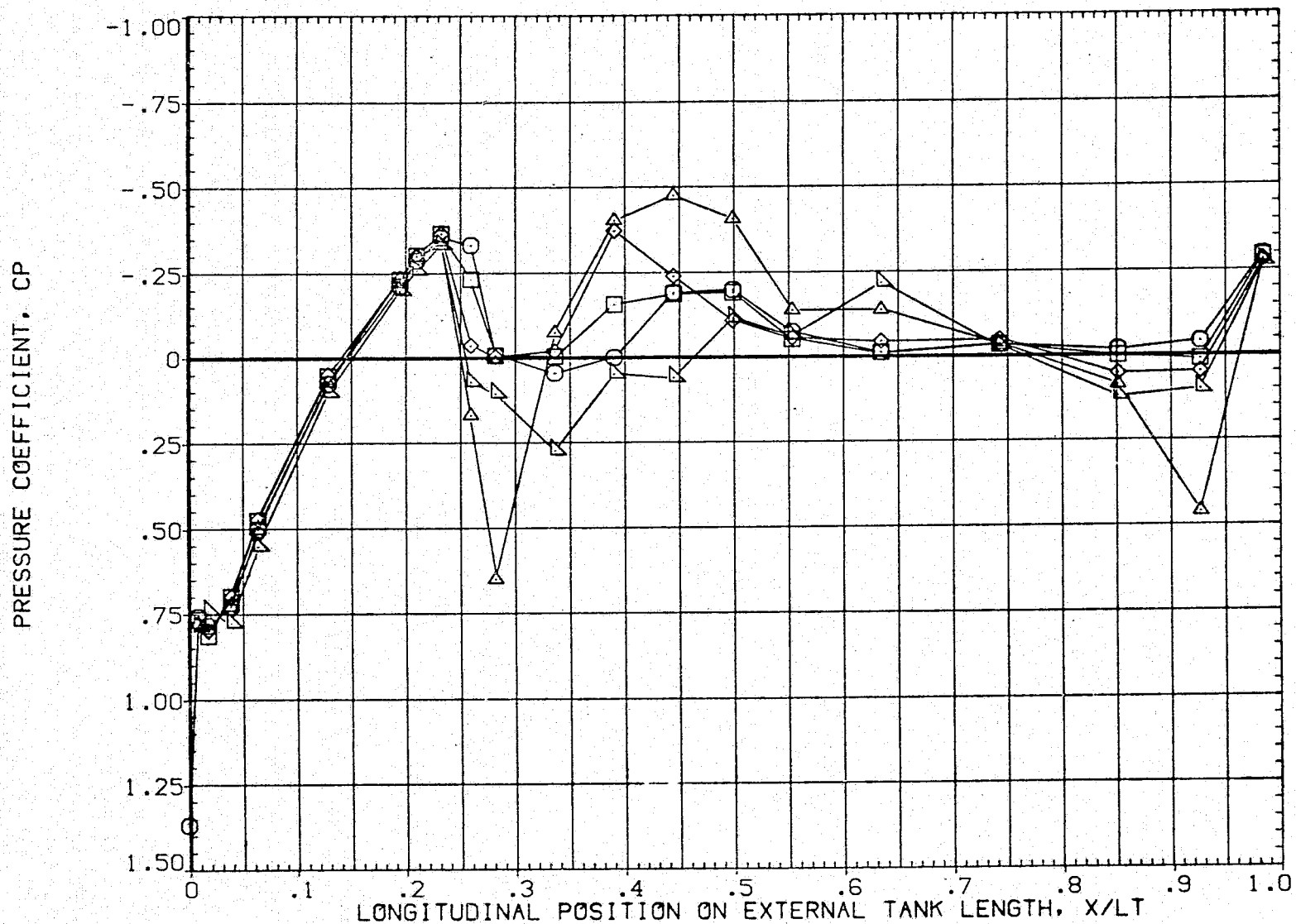


FIG. 60 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

ARC11-019 IA81 LVAP(ELHL SEALED) EXTERNAL TANK (IETT11)

SYMBOL	PHI	BETAT	ALPHAT
○	135.000	4.000	-4.000
□	147.000		
◇	162.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

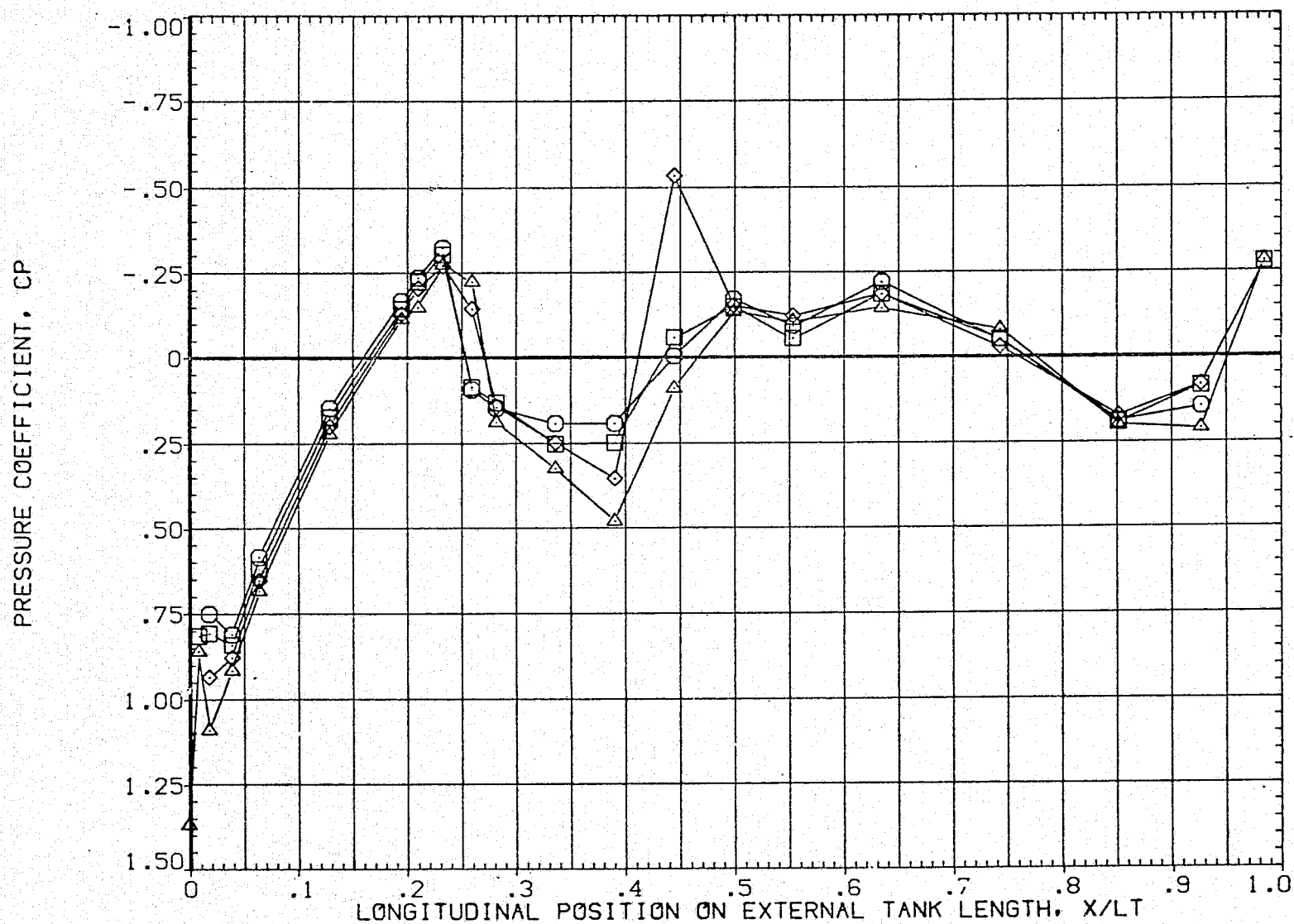


FIG. 60 EXT TANK LONG. PRESSURE DIST. ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 1.25

ARC11-019 IA81 LVAP(ELHL SEALED) EXTERNAL TANK (IETT11)

SYMBOL	PHI	BETAT	ALPHAT
○	.000	-4.000	.000
□	30.000		
◇	60.000		
△	90.000		
▽	120.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

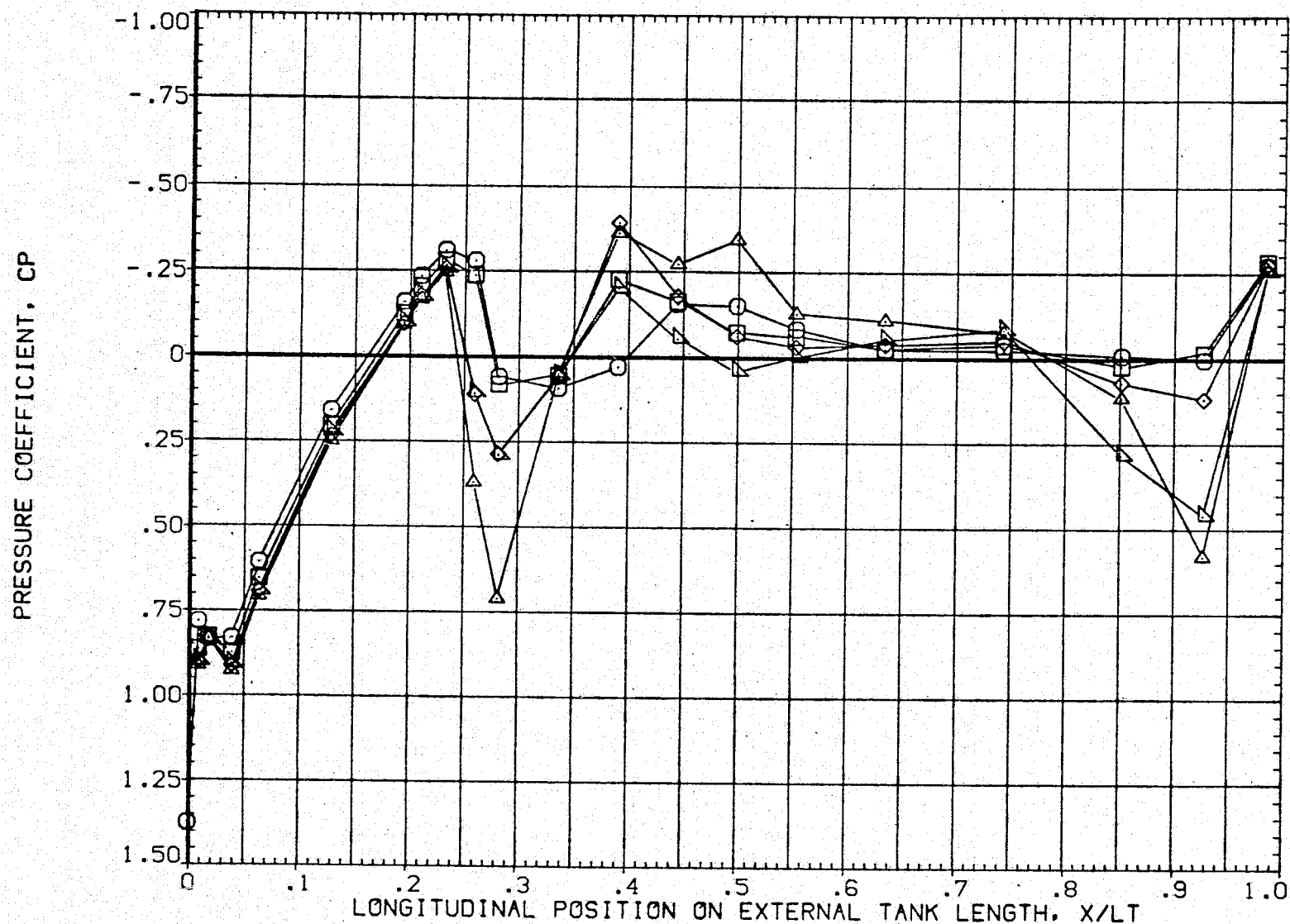


FIG. 60 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

ARC11-019 IA81 LVAP(ELHL SEALED) EXTERNAL TANK (IETT11)

SYMBOL	PHI	BETAT	ALPHAT
○	135.000	-4.000	.000
□	147.000		
◇	162.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

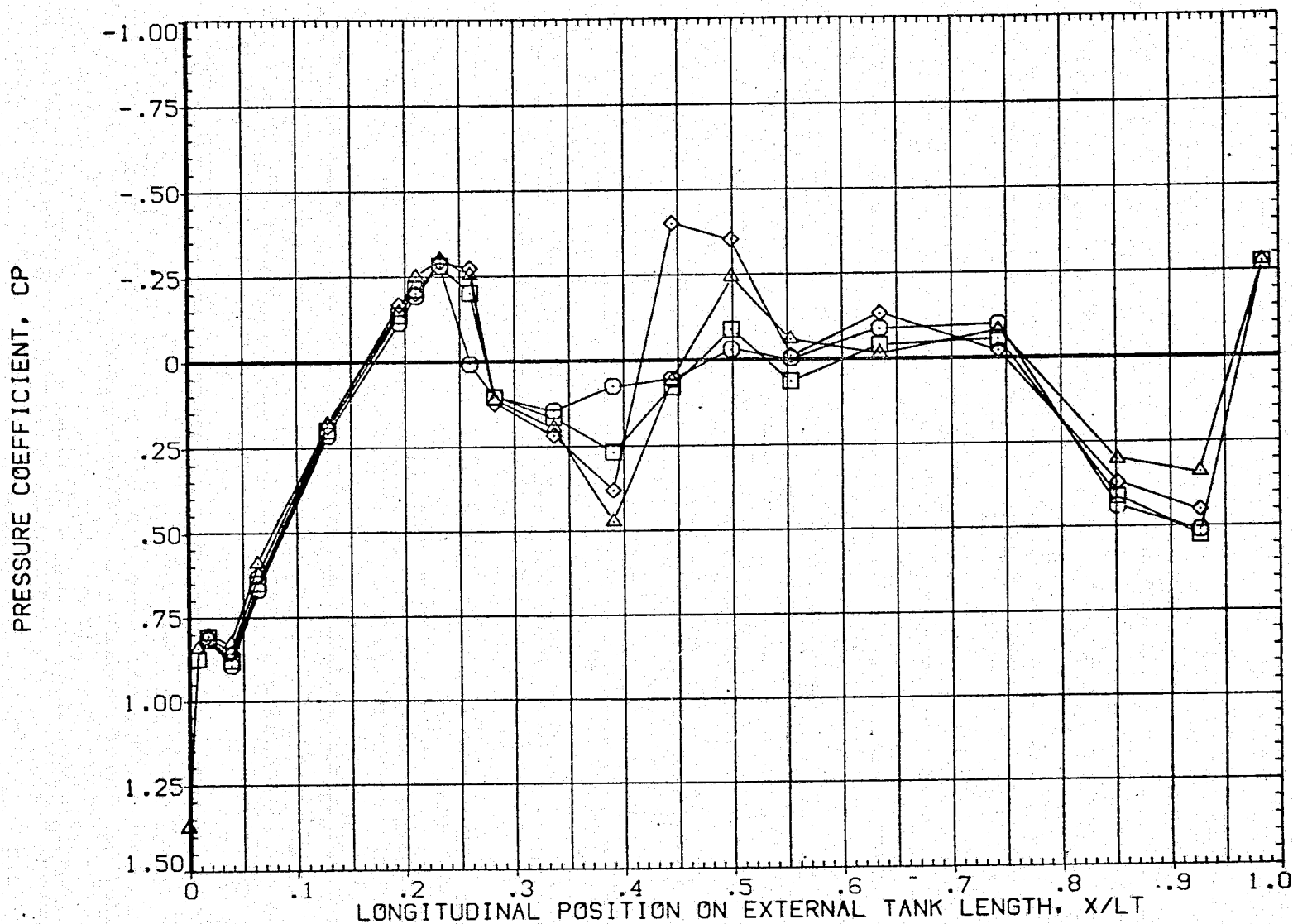


FIG. 60 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

SYMBOL	PHI	BETAT	ALPHAT
○	.000	.000	.000
□	30.000		
◇	60.000		
△	90.000		
▽	120.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-1B	8.000	ELV-03	4.000
RUDDER	.000	SPDBRK	.000

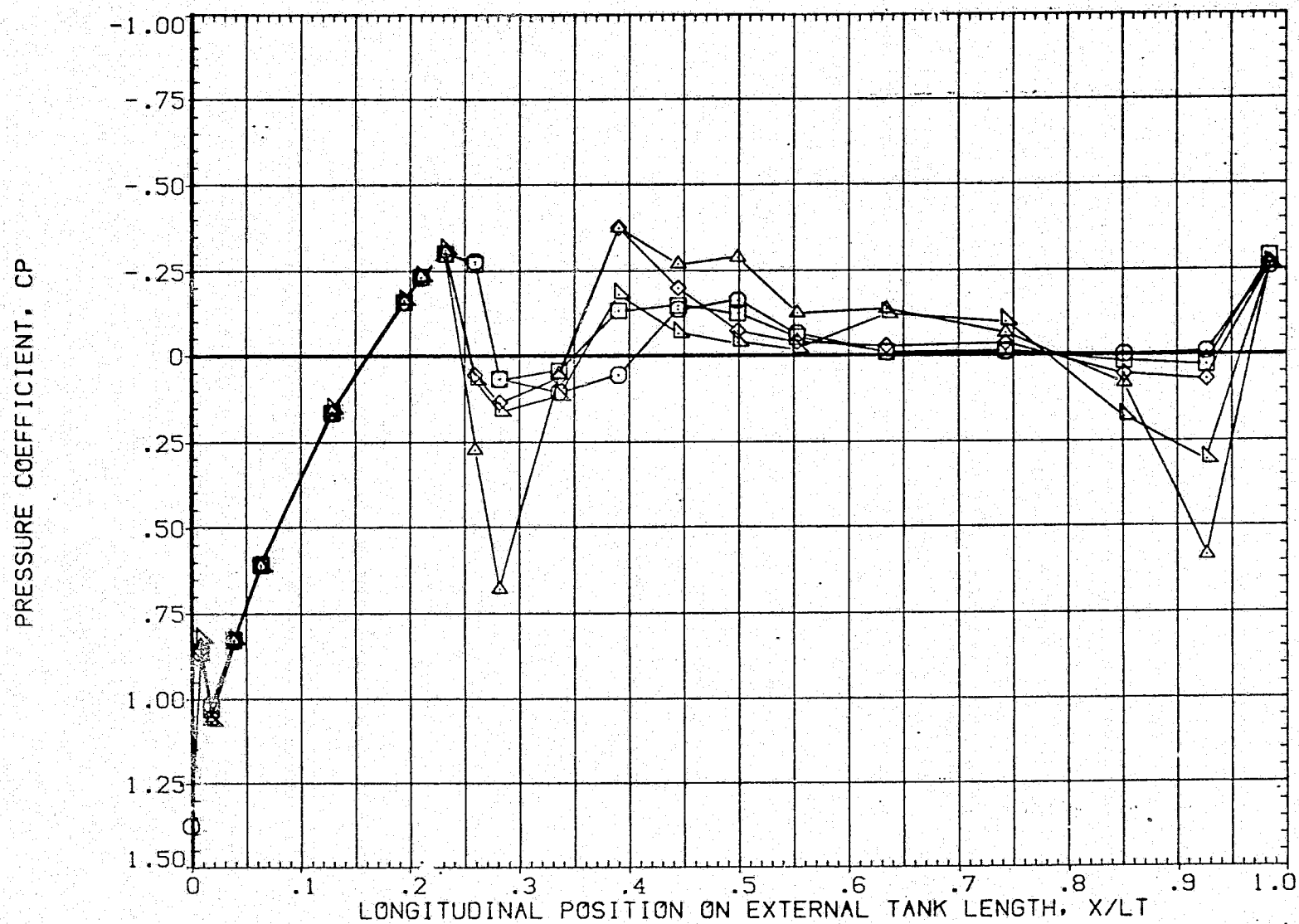


FIG. 60 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

ARC11-019 IA81 LVAP(ELHL SEALED) EXTERNAL TANK (IETT11)

SYMBOL	PHI	BETAT	ALPHAT
○	135.000	.000	.000
□	147.000		
◇	162.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

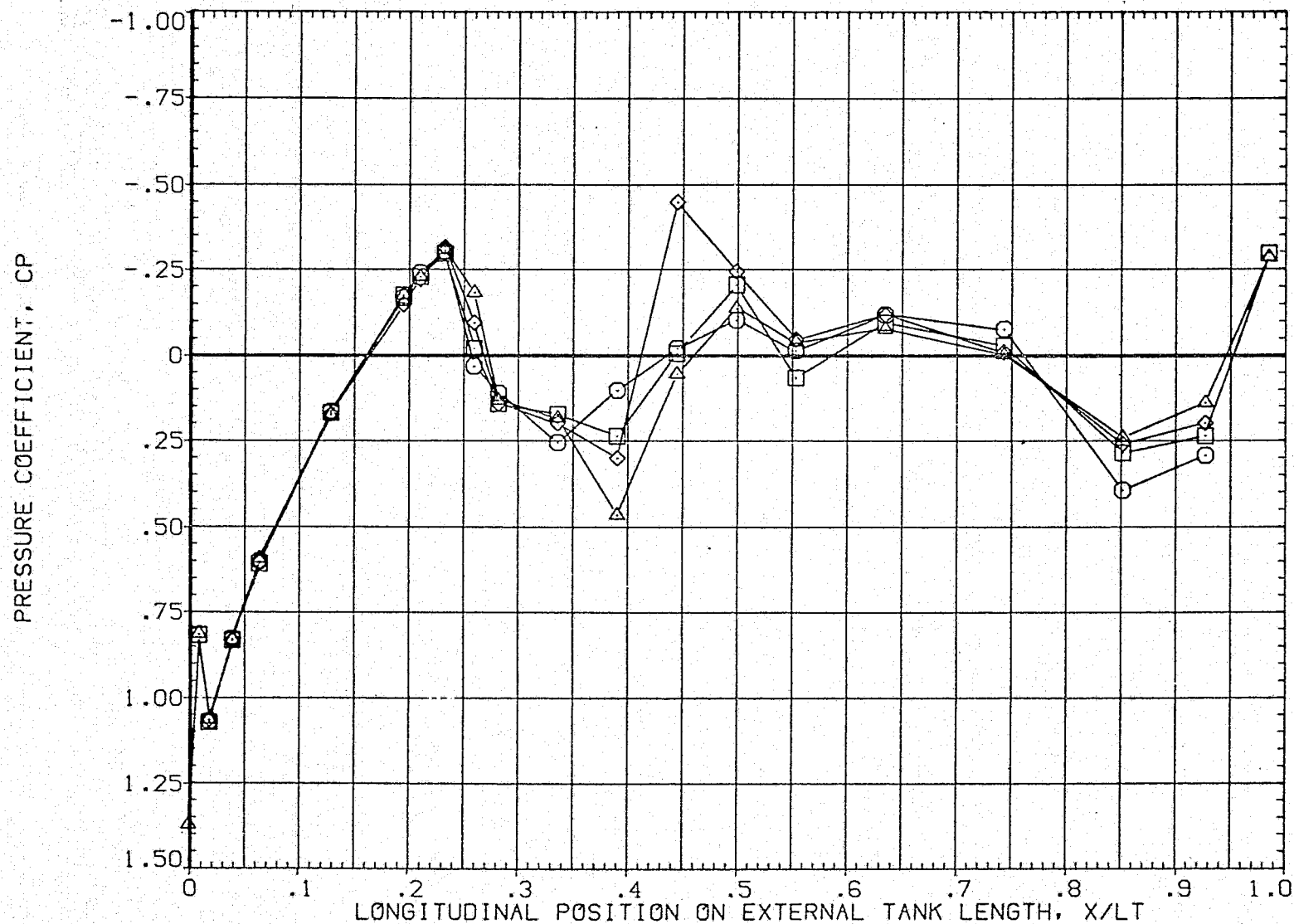


FIG. 60 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

ARC11-019 IA81 LVAP(ELHL SEALED) EXTERNAL TANK (IETT11)

SYMBOL	PHI	BETAT	ALPHAT
○	.000	4.000	.000
□	30.000		
◇	60.000		
△	90.000		
▽	120.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

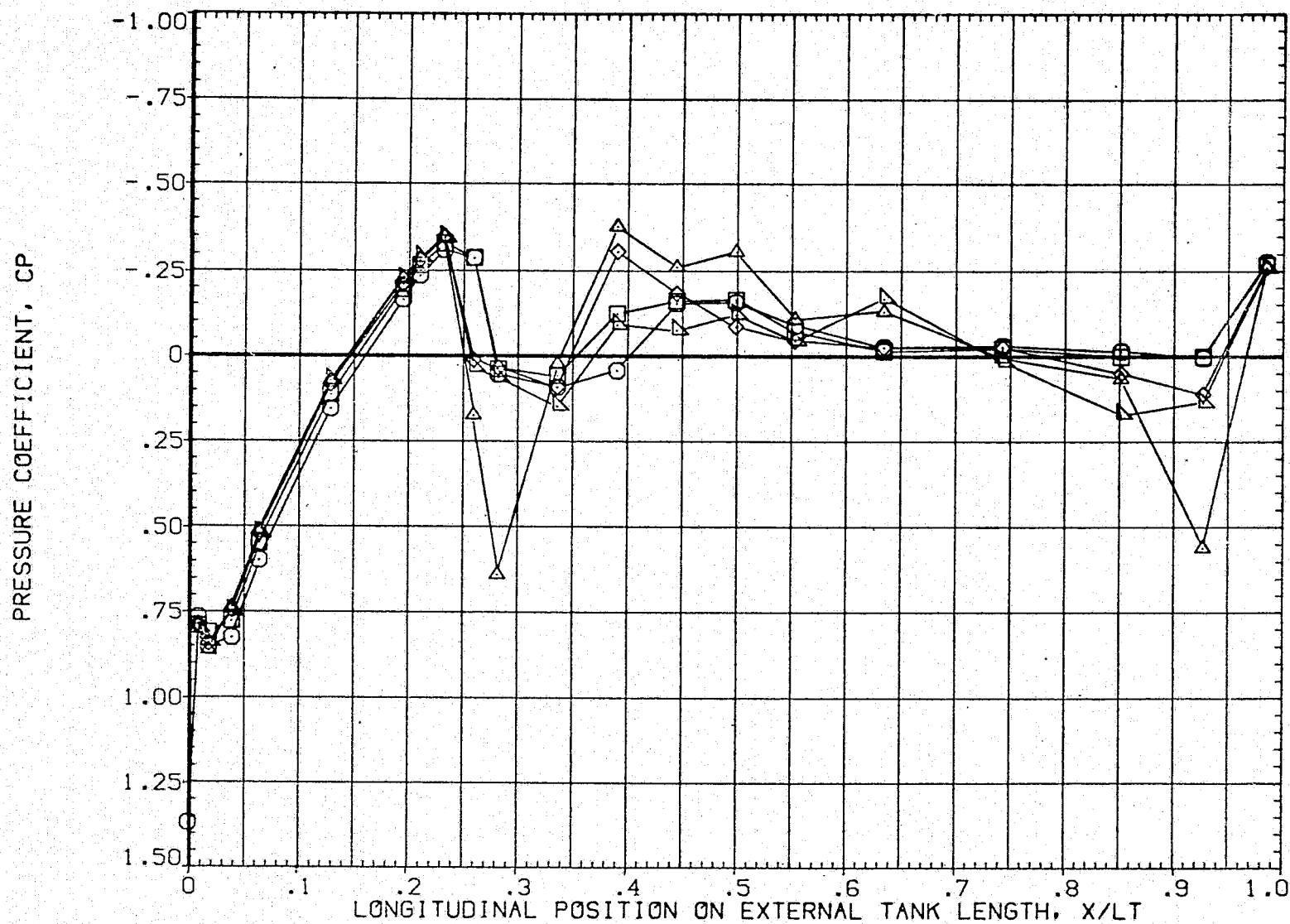


FIG. 60 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

ARC11-019 IA81 LVAP(ELHL SEALED) EXTERNAL TANK (IETT11)

SYMBOL	PHI	BETAT	ALPHAT
○	135.000	4.000	.000
□	147.000		
◇	162.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000



FIG. 60 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

ARC11-019 IA81 LVAP(ELHL SEALED) EXTERNAL TANK (IETT11)

SYMBOL	PHI	BETAT	ALPHAT
○	.000	-4.000	4.000
□	30.000		
◇	60.000		
△	90.000		
▽	120.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

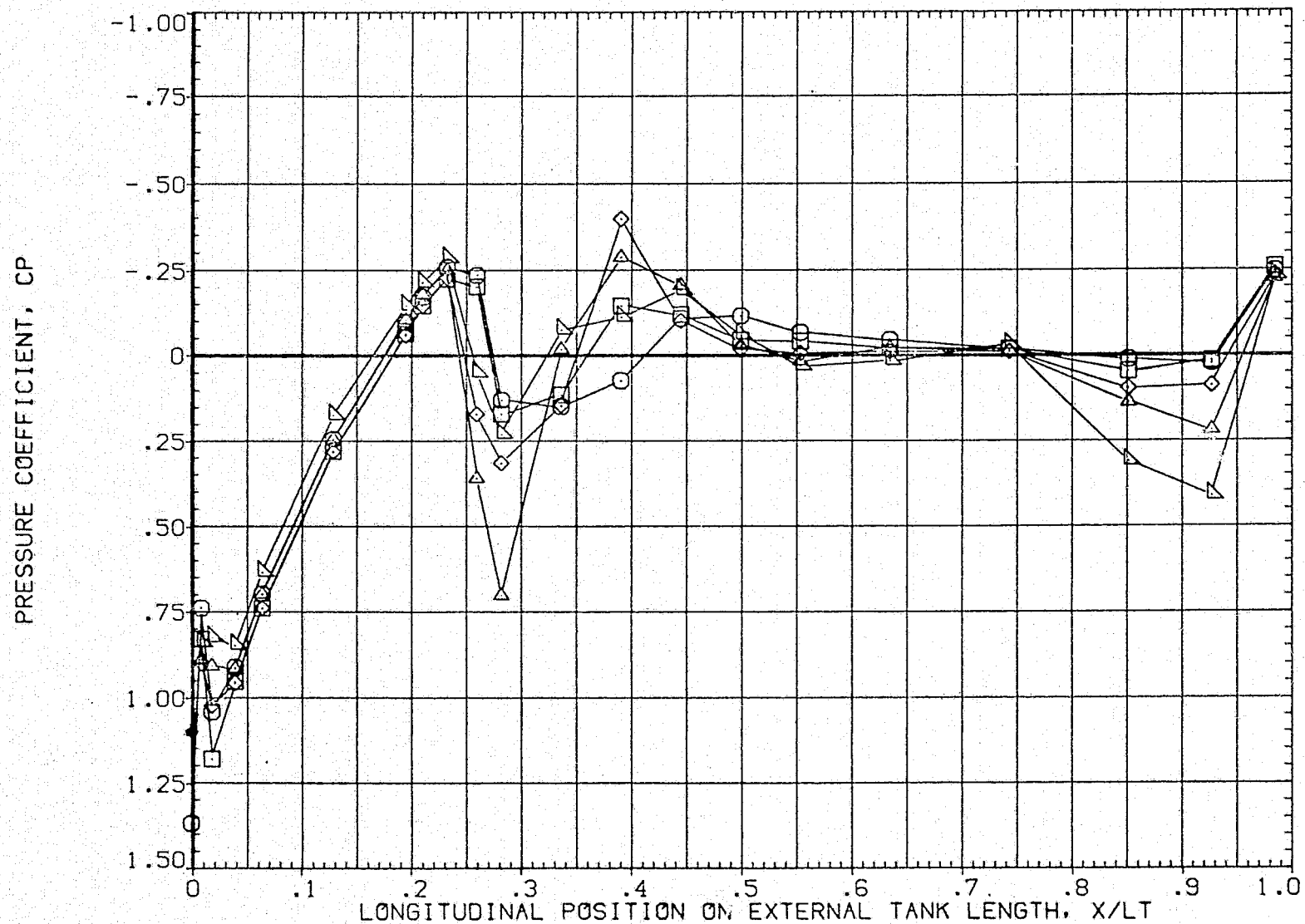


FIG. 60 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

ARC11-019 1A81 LVAP(ELHL SEALED) EXTERNAL TANK (IETT11)

SYMBOL	PHI	BETAT	ALPHAT
○	135.000	-4.000	4.000
□	147.000		
◇	162.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

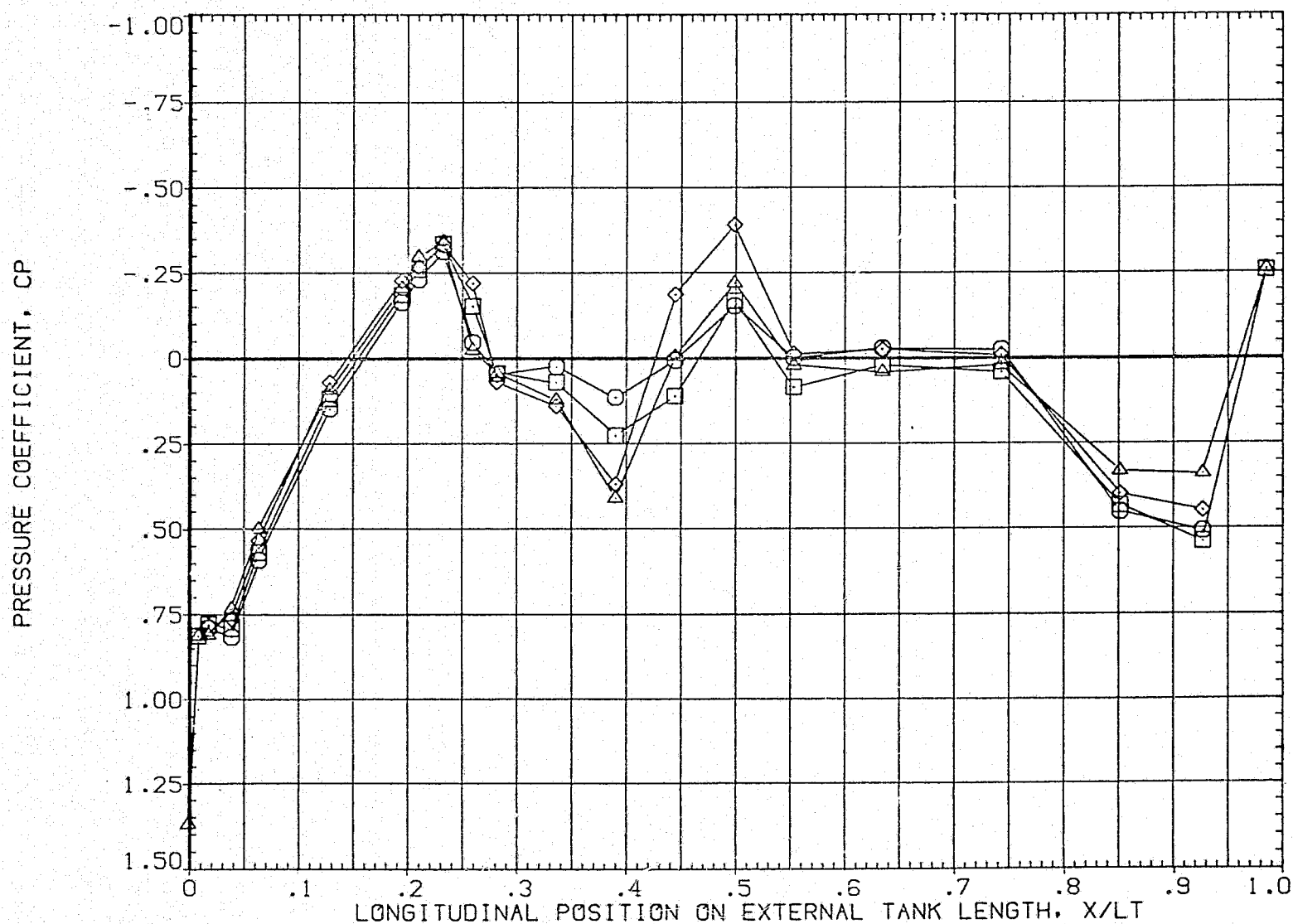


FIG. 60 EXT TANK LONG. PRESSURE DIST. ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 1.25

SYMBOL	PHI	BETAT	ALPHAT
○	.000	.000	4.000
□	30.000		
◇	60.000		
△	90.000		
▽	120.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

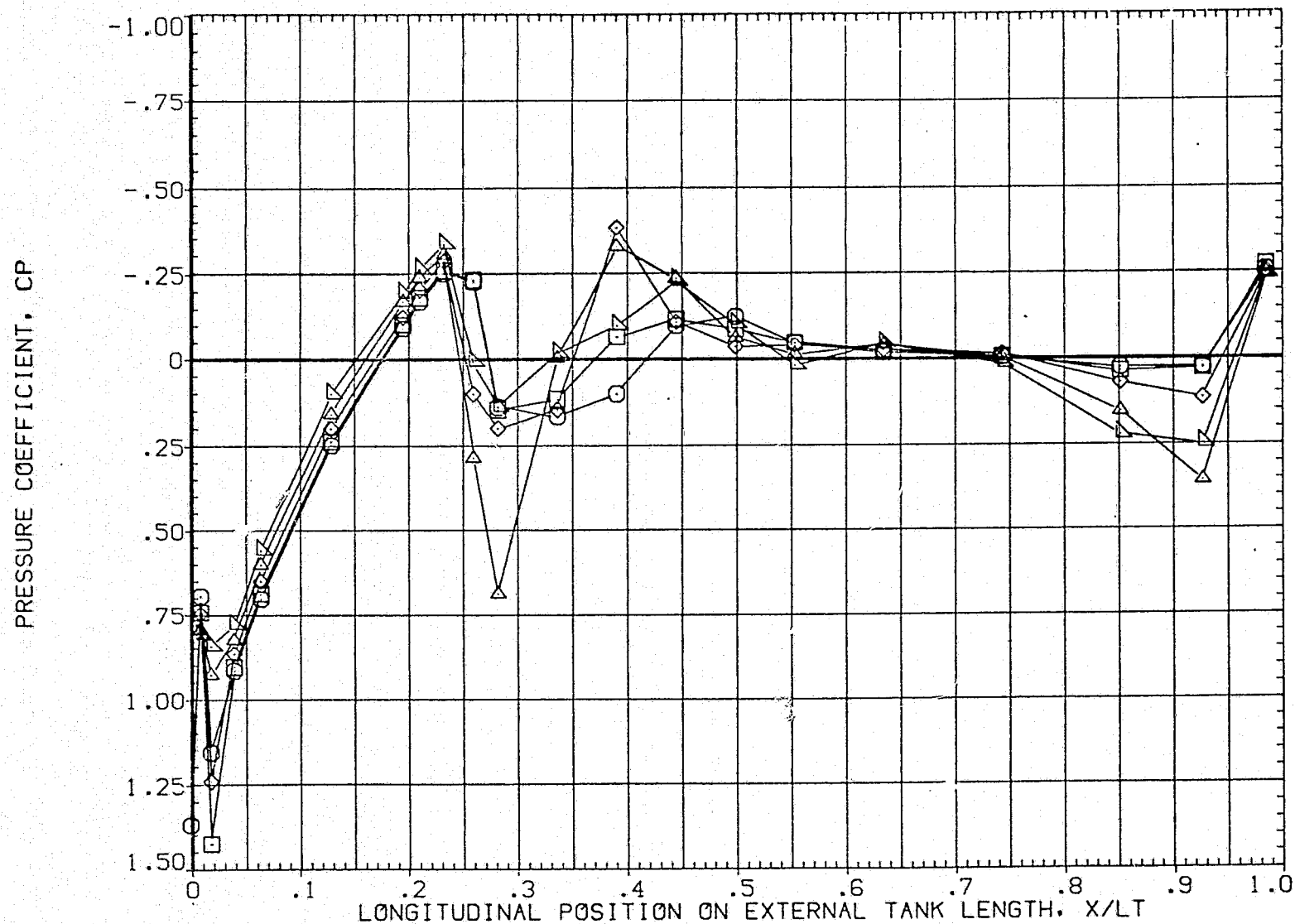


FIG. 60 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

ARC11-019 IA81 LVAP(ELHL SEALED) EXTERNAL TANK (IETT11)

SYMBOL	PHI	BETAT	ALPHAT
○	135.000	.000	4.000
□	147.000		
◇	162.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	7.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

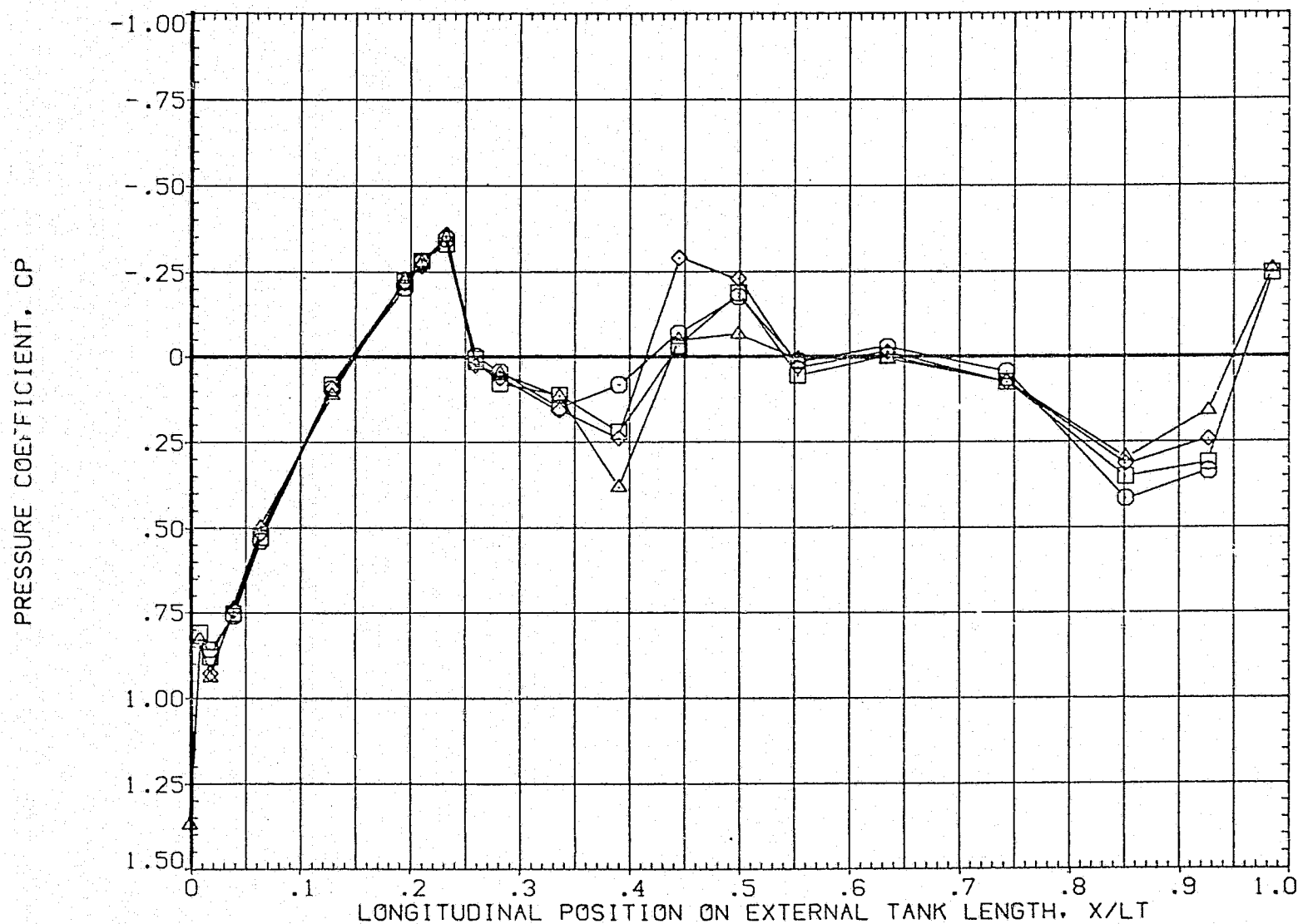


FIG. 60 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

ARC11-019 IA81 LVAP(ELHL SEALED) EXTERNAL TANK (IETT11)

SYMBOL	PHI	BETAT	ALPHAT
○	.000	4.000	4.000
□	30.000		
◇	60.000		
△	90.000		
▽	120.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

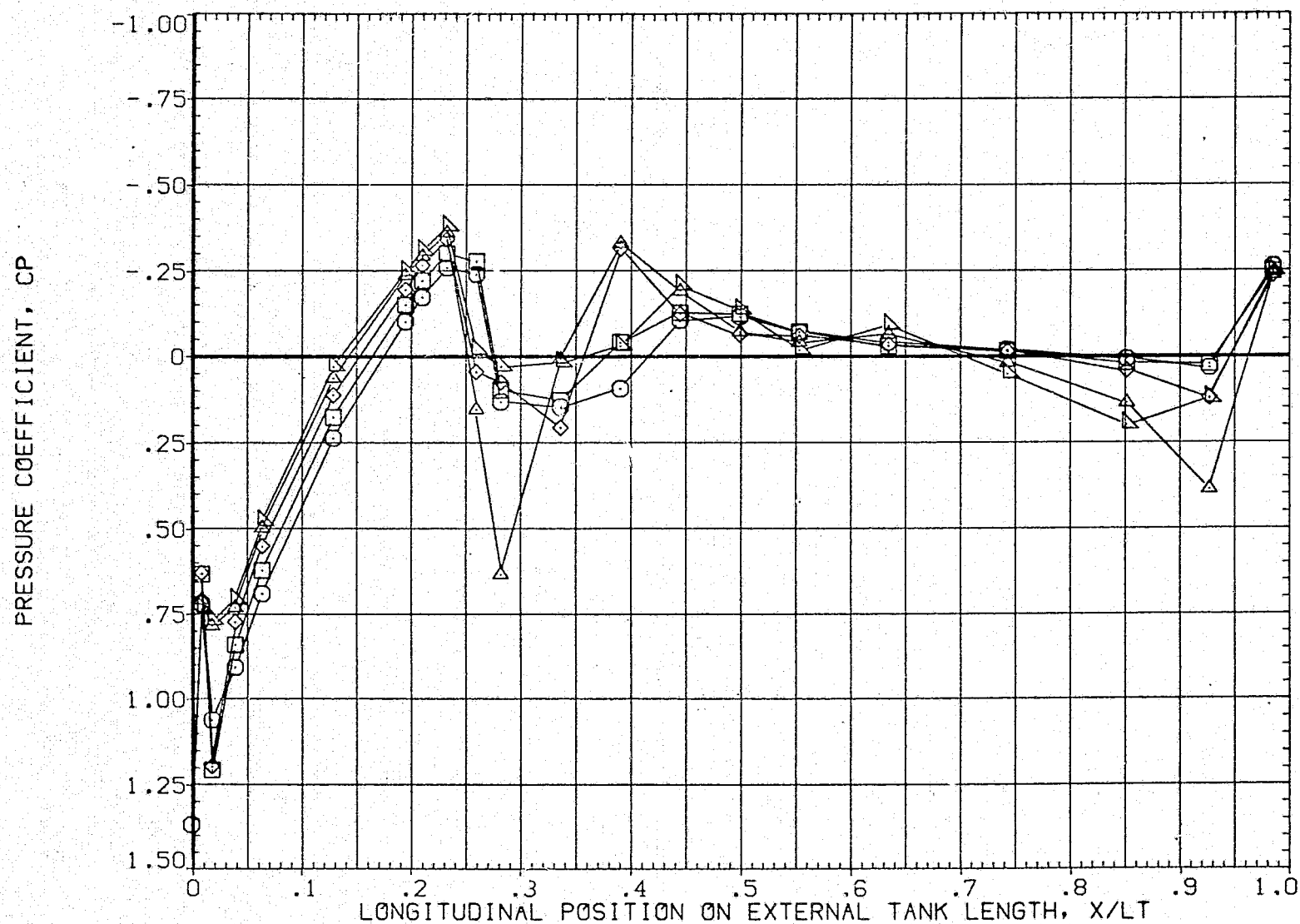


FIG. 60 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

ARC11-019 IA81 LVAP(ELHL SEALED) EXTERNAL TANK (IETT11)

SYMBOL	PHI	BETAT	ALPHAT
○	135.000	4.000	4.000
□	147.000		
◇	162.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

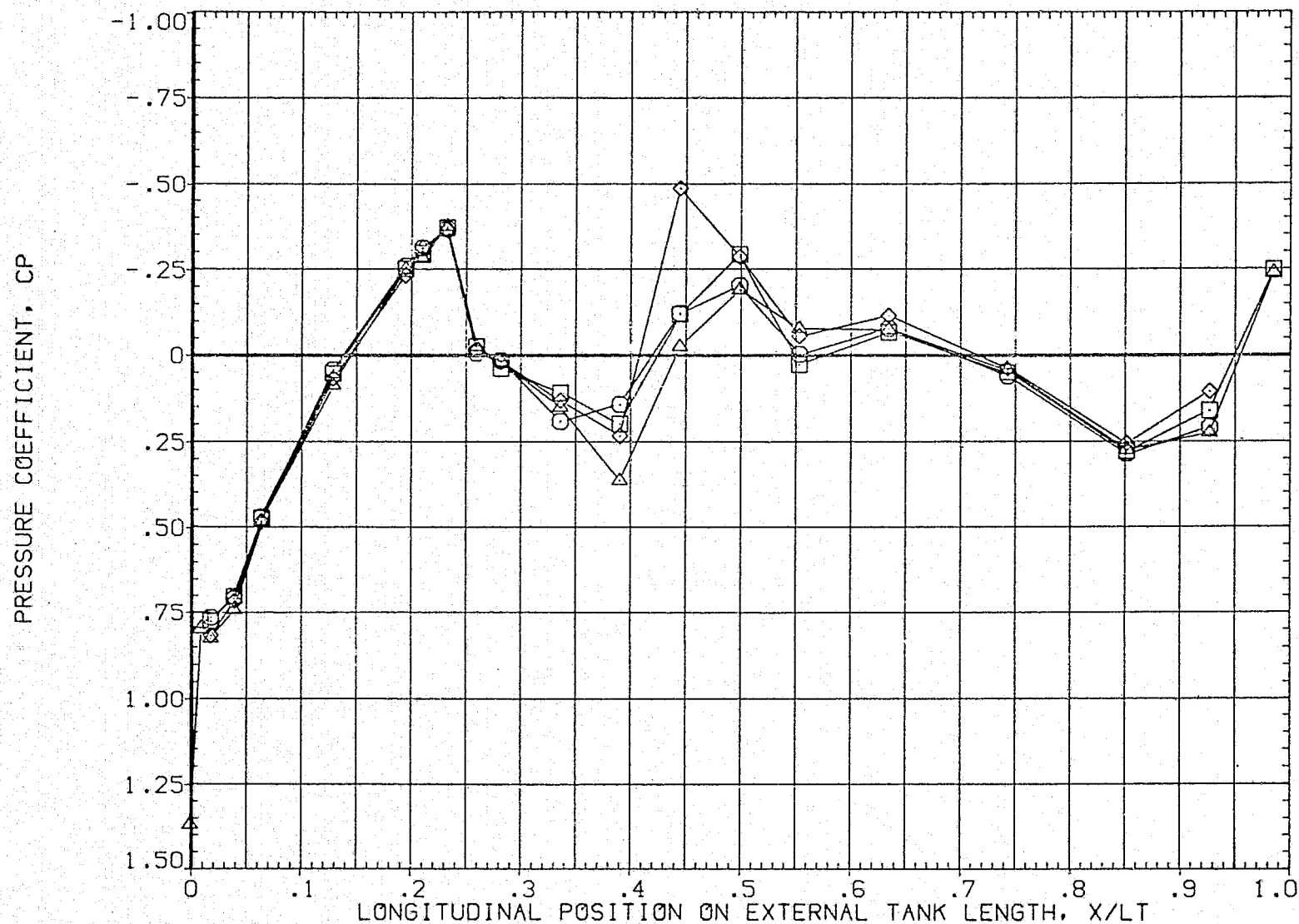


FIG. 60 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK =0, MACH = 1.25

ARC11-019 IA81 LVAP(ELHL SEALED) EXTERNAL TANK (IETT12)

SYMBOL	PHI	BETAT	ALPHAT
○	.000	-4.000	-4.000
□	30.000		
◇	60.000		
△	90.000		
▽	120.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-18	8.000	ELV-08	.000
RUDDER	.000	SPDBRK	.000

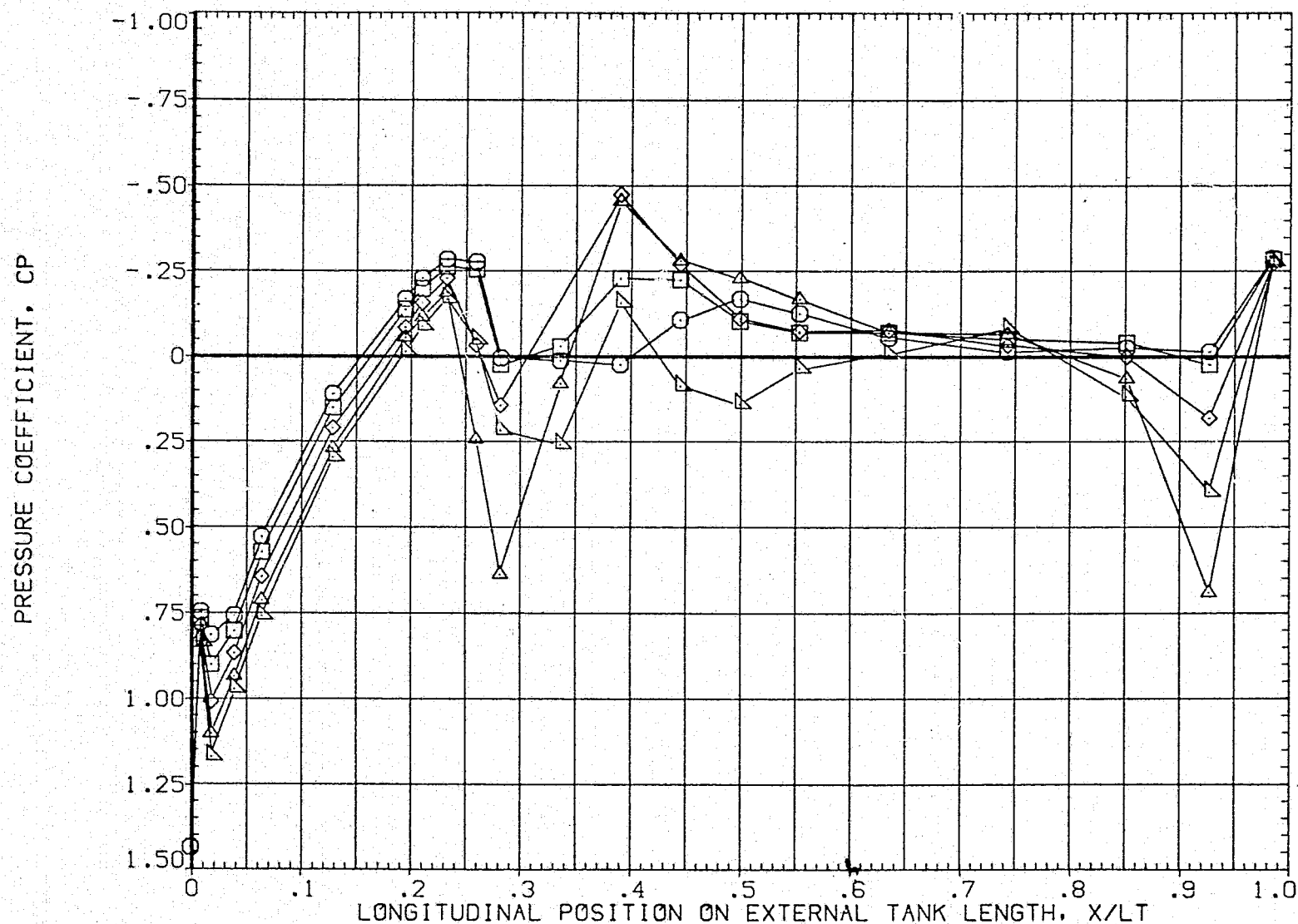


FIG. 61 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/0, SPDBRK = 0, MACH = 1.4

ARC11-019 IA81 LVAP(ELHL SEALED) EXTERNAL TANK (IETT12)

SYMBOL	PHI	BETAT	ALPHAT
○	135.000	-4.000	-4.000
□	147.000		
◇	162.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-18	8.000	ELV-08	.000
RUDDER	.000	SPDBRK	.000

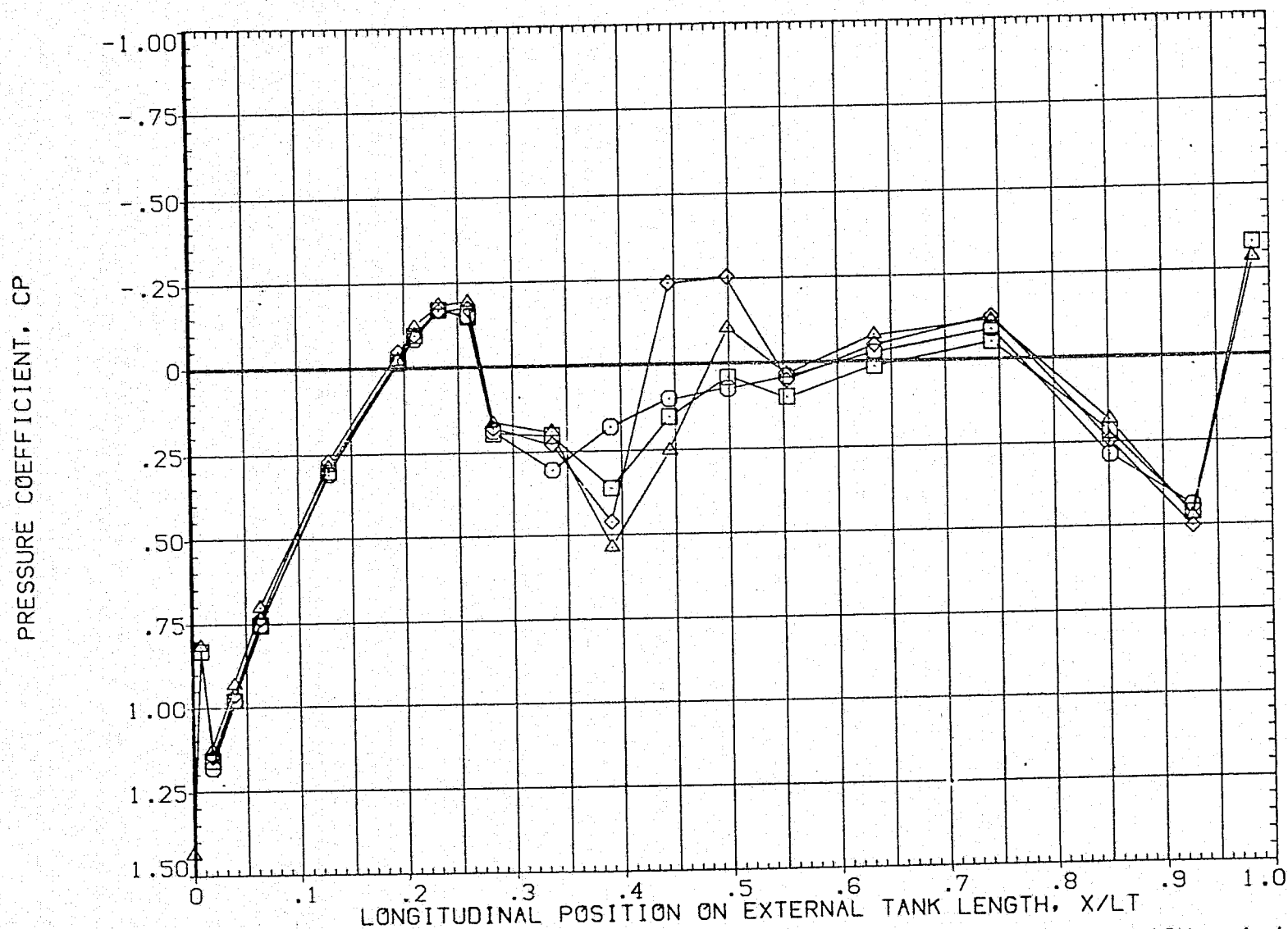


FIG. 61 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/0, SPDBRK = 0, MACH = 1.4

SYMBOL	PHI	BETAT	ALPHAT
○	.000	.000	-4.000
□	30.000		
◇	60.000		
△	90.000		
▽	120.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-IB	8.000	ELV-OB	.000
RUDDER	.000	SPDBRK	.000

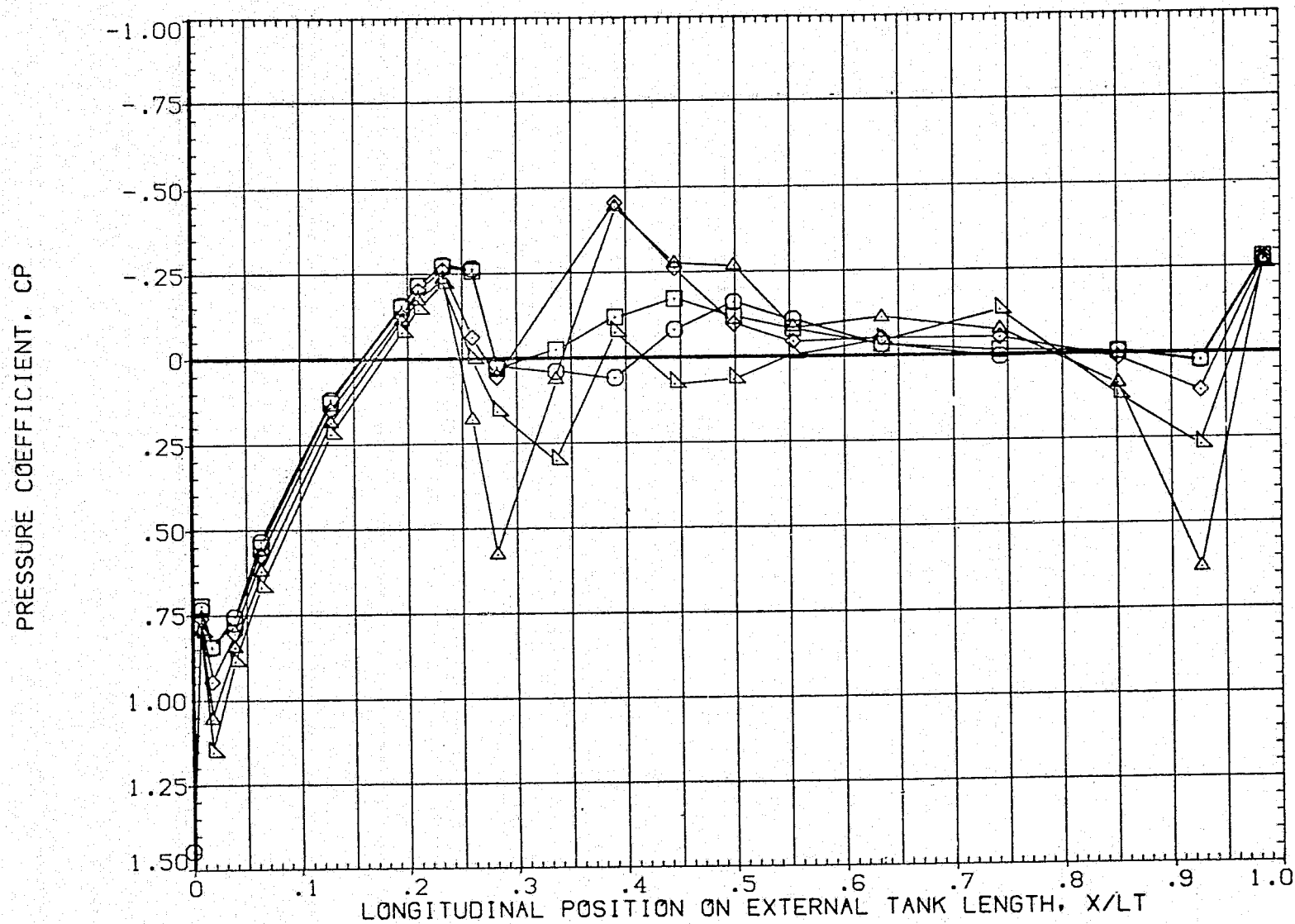


FIG. 61 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/O, SPDBRK = 0, MACH = 1.4

ARC11-019 IA81 LVAP(ELHL SEALED) EXTERNAL TANK (IETT12)

SYMBOL	PHI	BETAT	ALPHAT
○	135.000	.000	-4.000
□	147.000		
◇	162.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-1B	8.000	ELV-0B	.000
RUDDER	.000	SPDBRK	.000

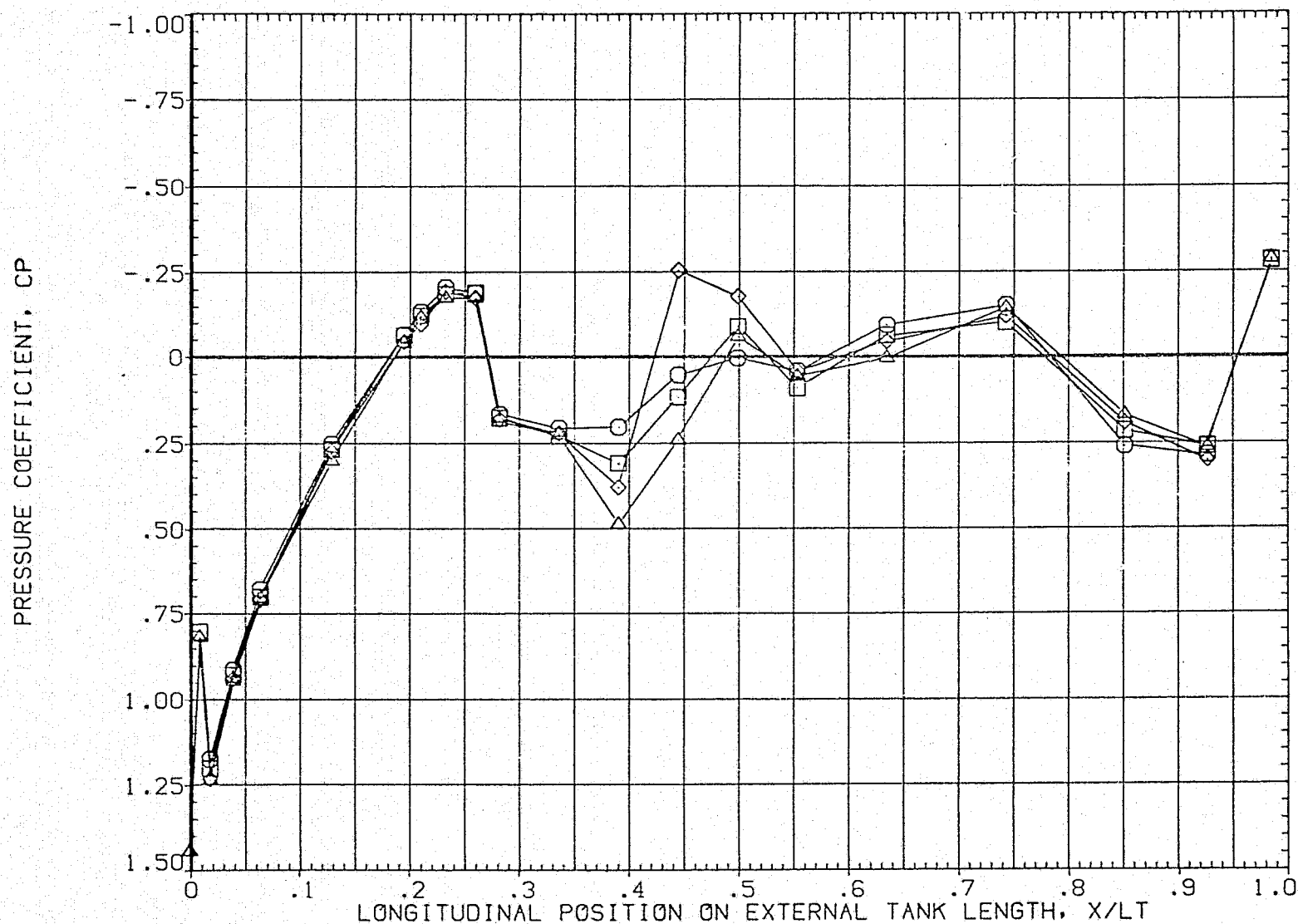


FIG. 61 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/O, SPDBRK = 0, MACH = 1.4

ARC11-019 IA81 LVAP(ELHL SEALED) EXTERNAL TANK (IETT12)

SYMBOL	PHI	BETAT	ALPHAT
○	.000	4.000	-4.000
□	30.000		
◇	60.000		
△	90.000		
▽	120.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-IB	8.000	ELV-OB	.000
RUDDER	.000	SPDBRK	.000

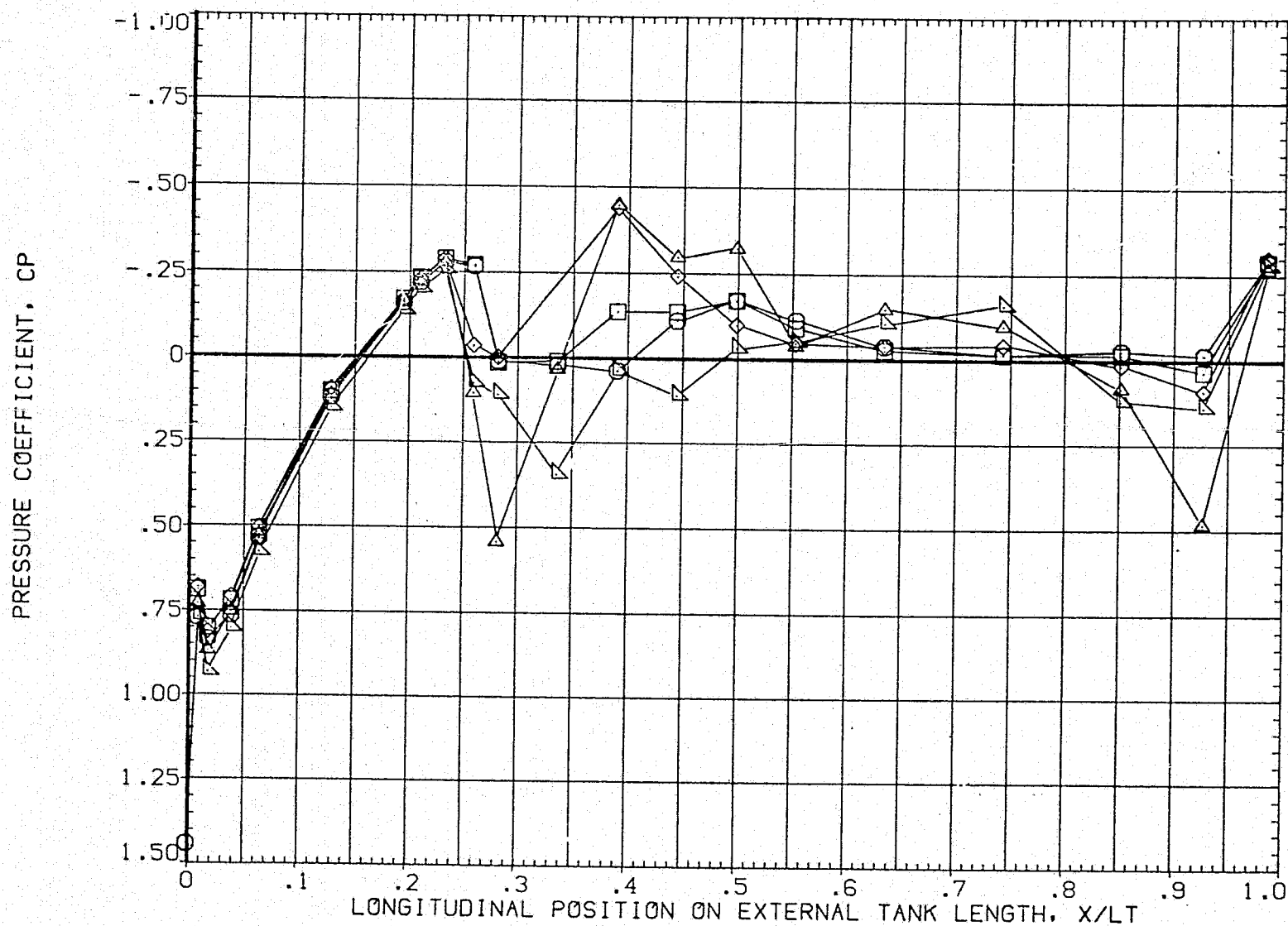


FIG. 61 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/O, SPDBRK = 0, MACH = 1.4

ARC11-019 IA81 LVAP(ELHL SEALED) EXTERNAL TANK (IETT12)

SYMBOL	PHI	BETAT	ALPHAT
○	135.000	4.000	-4.000
□	147.000		
◇	162.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-IB	8.000	ELV-OB	.000
RUDDER	.000	SPDBRK	.000

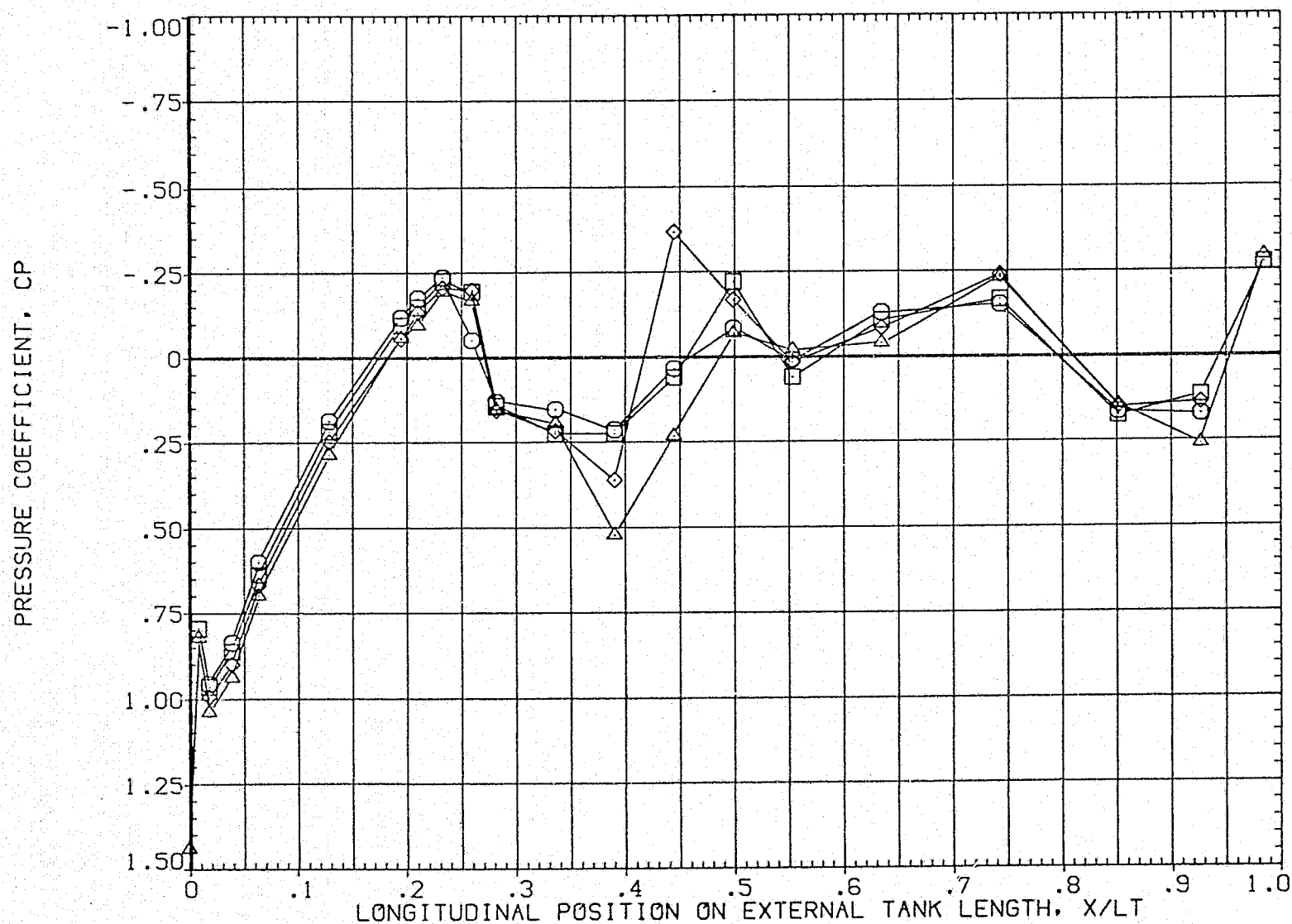


FIG. 61 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/O, SPDBRK =0, MACH = 1.4

ARC11-019 IA81 LVAP(ELHL SEALED) EXTERNAL TANK (IETT12)

SYMBOL	PHI	BETAT	ALPHAT
○	.000	~4.000	.000
□	30.000		
◇	60.000		
△	90.000		
▽	120.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-IB	8.000	ELV-OB	.000
RUDDER	.000	SPDBRK	.000

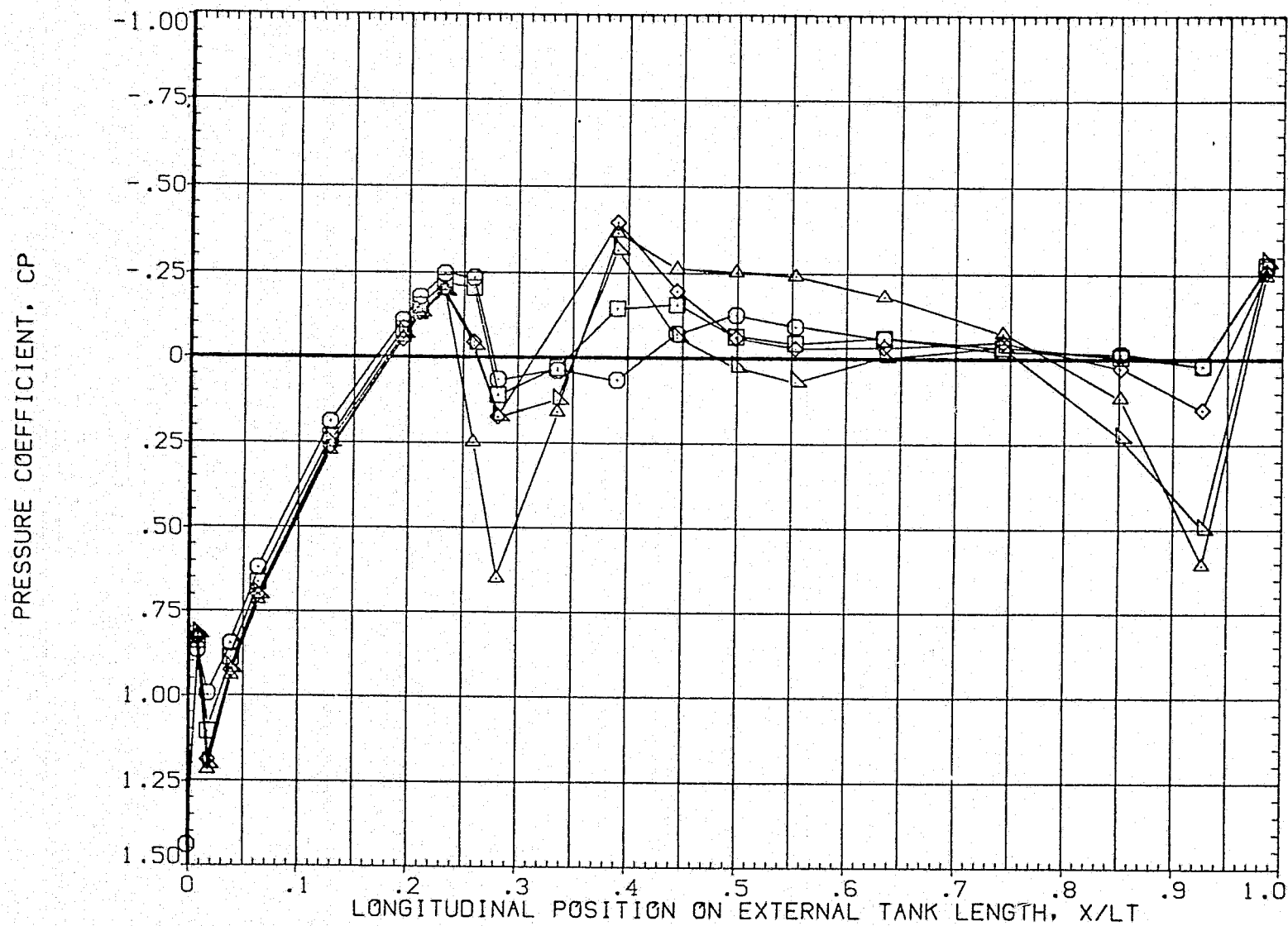


FIG. 61 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/O, SPDBRK = 0, MACH = 1.4

ARC11-019 1A81 LVAP(ELHL SEALED) EXTERNAL TANK (IETT12)

SYMBOL	PHI	BETAT	ALPHAT
○	135.000	-4.000	.000
□	147.000		
◇	162.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-IB	8.000	ELV-OB	.000
RUDDER	.000	SPDBRK	.000

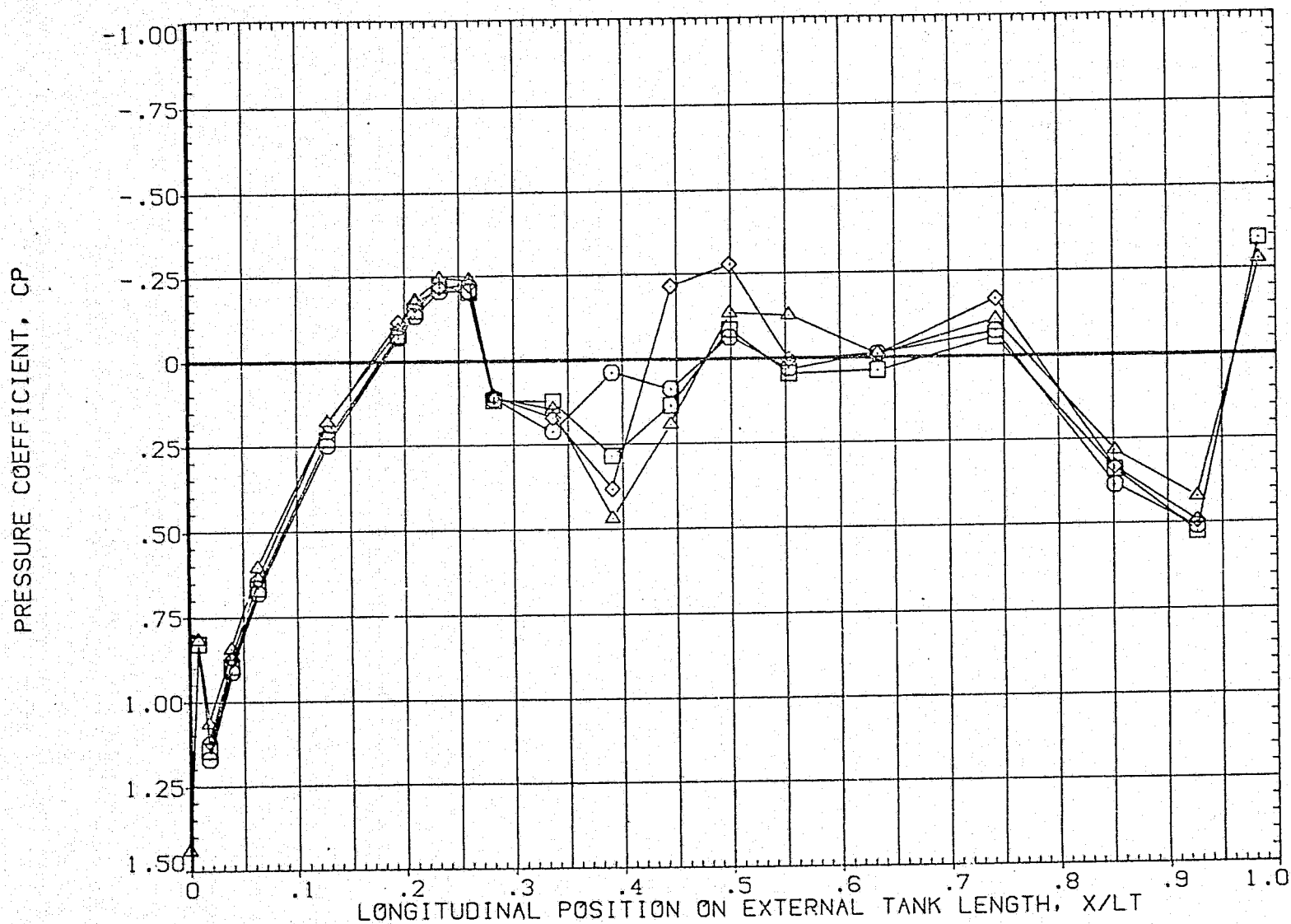


FIG. 61 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/O, SPDBRK = 0, MACH = 1.4

ARC11-019 1A81 LVAP(ELHL SEALED) EXTERNAL TANK (IETT12)

SYMBOL	PHI	BETAT	ALPHAT
○	.000	.000	.000
□	30.000		
◇	60.000		
△	90.000		
▽	120.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-18	8.000	ELV-08	.000
RUDDER	.000	SPDBRK	.000

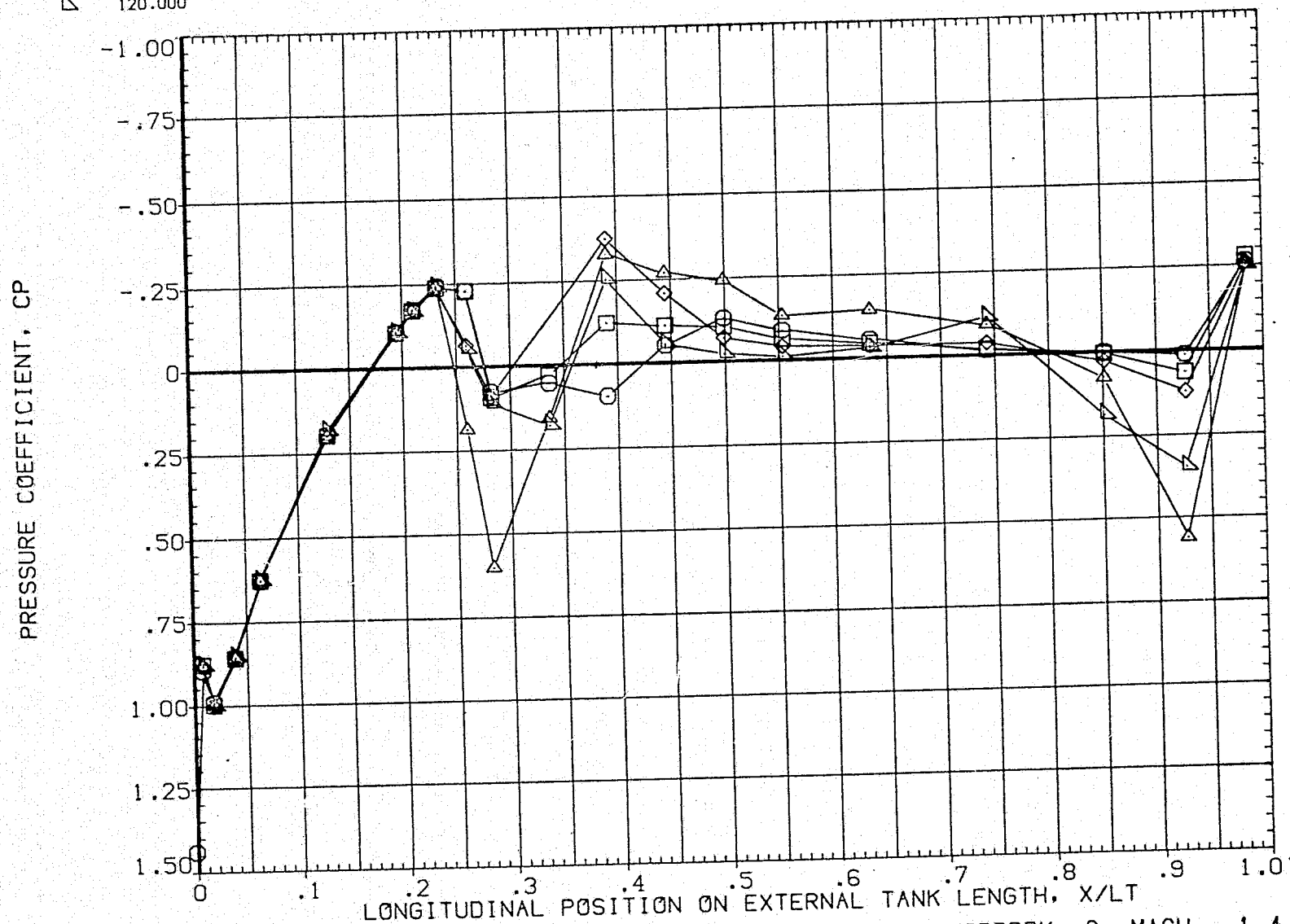


FIG. 61 EXT TANK LONG. PRESSURE DIST. ELEVON 1/0 = 8/0, SPDBRK = 0, MACH = 1.4

ARC11-019 IA81 LVAP(ELHL SEALED) EXTERNAL TANK (IETT12)

SYMBOL	PHI	BETAT	ALPHAT
○	135.000	.000	.000
□	147.000		
◇	162.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-1B	8.000	ELV-GB	.000
RUDDER	.000	SPDBRK	.000



FIG. 61 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/0, SPDBRK = 0, MACH = 1.4

ARC11-019 IA81 LVAP(ELHL SEALED) EXTERNAL TANK (IETT12)

SYMBOL	PHI	BETAT	ALPHAT
○	.000	4.000	.000
□	30.000		
◇	60.000		
△	90.000		
▽	120.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-18	8.000	ELV-08	.000
RUDDER	.000	SPDBRK	.000

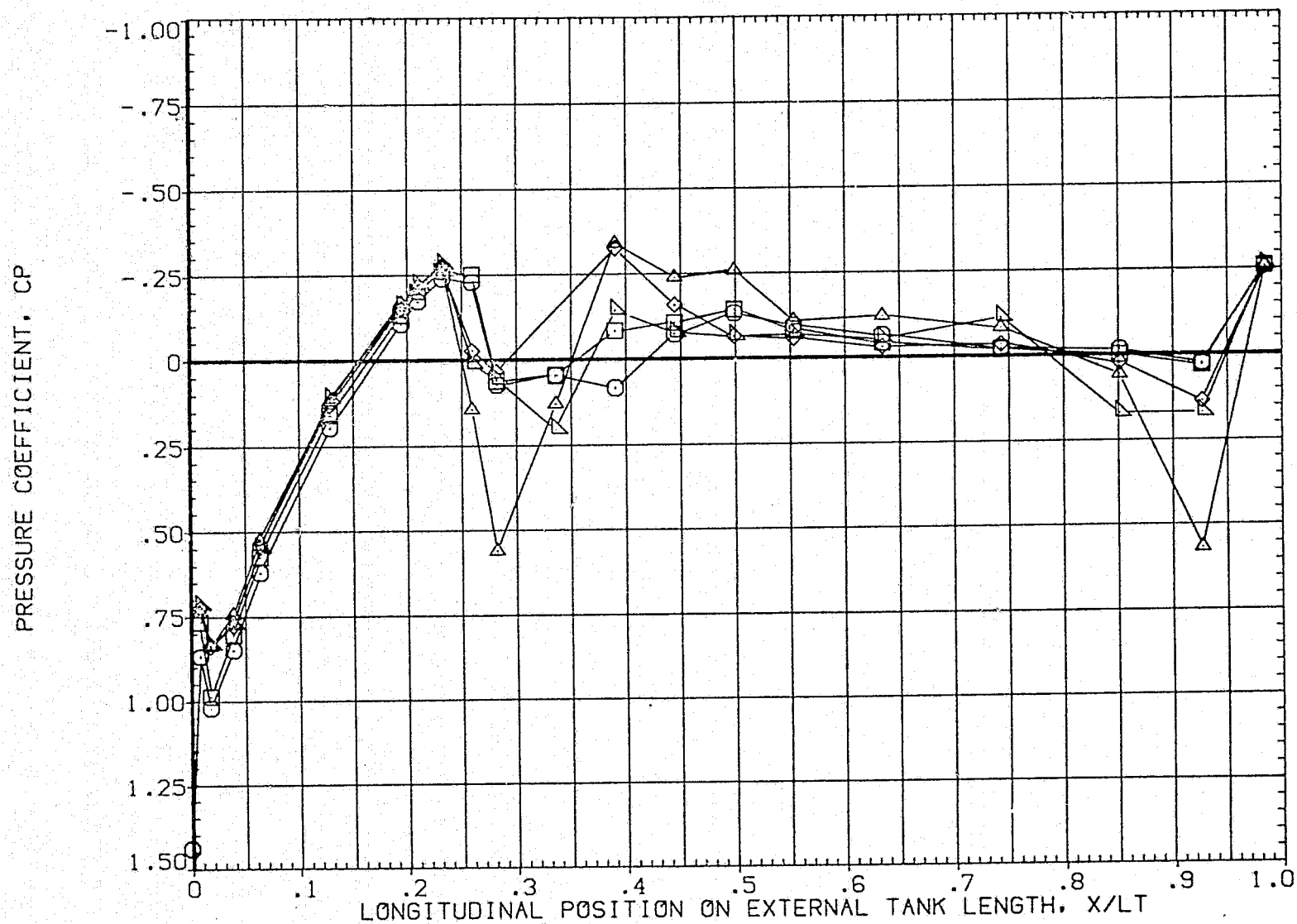


FIG. 61 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/O, SPDBRK = 0, MACH = 1.4

ARC11-019 IA81 LVAP(ELHL SEALED) EXTERNAL TANK (IETT12)

SYMBOL	PHI	BETAT	ALPHAT
○	135.000	4.000	.000
□	147.000		
◇	162.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-IB	8.000	ELV-OB	.000
RUDDER	.000	SPDBRK	.000

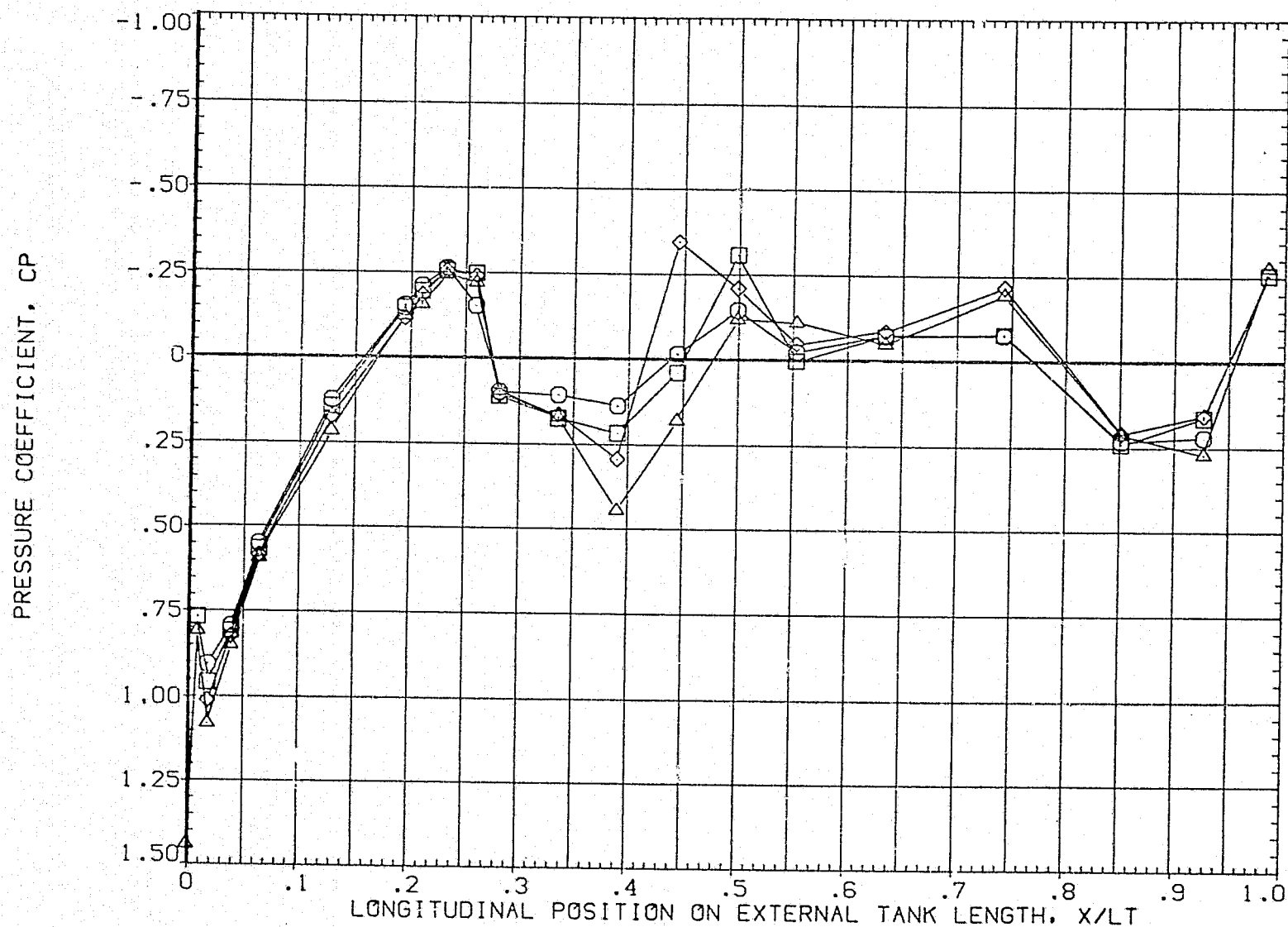


FIG. 61 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/O, SPDBRK = 0, MACH = 1.4

ARC11-019 IA81 LVAP(ELHL SEALED) EXTERNAL TANK (IETT12)

SYMBOL	PHI	BETAT	ALPHAT
○	.000	-4.000	4.000
□	30.000		
◇	60.000		
△	90.000		
▽	120.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-1B	8.000	ELV-0B	.000
RUDDER	.000	SPDBRK	.000

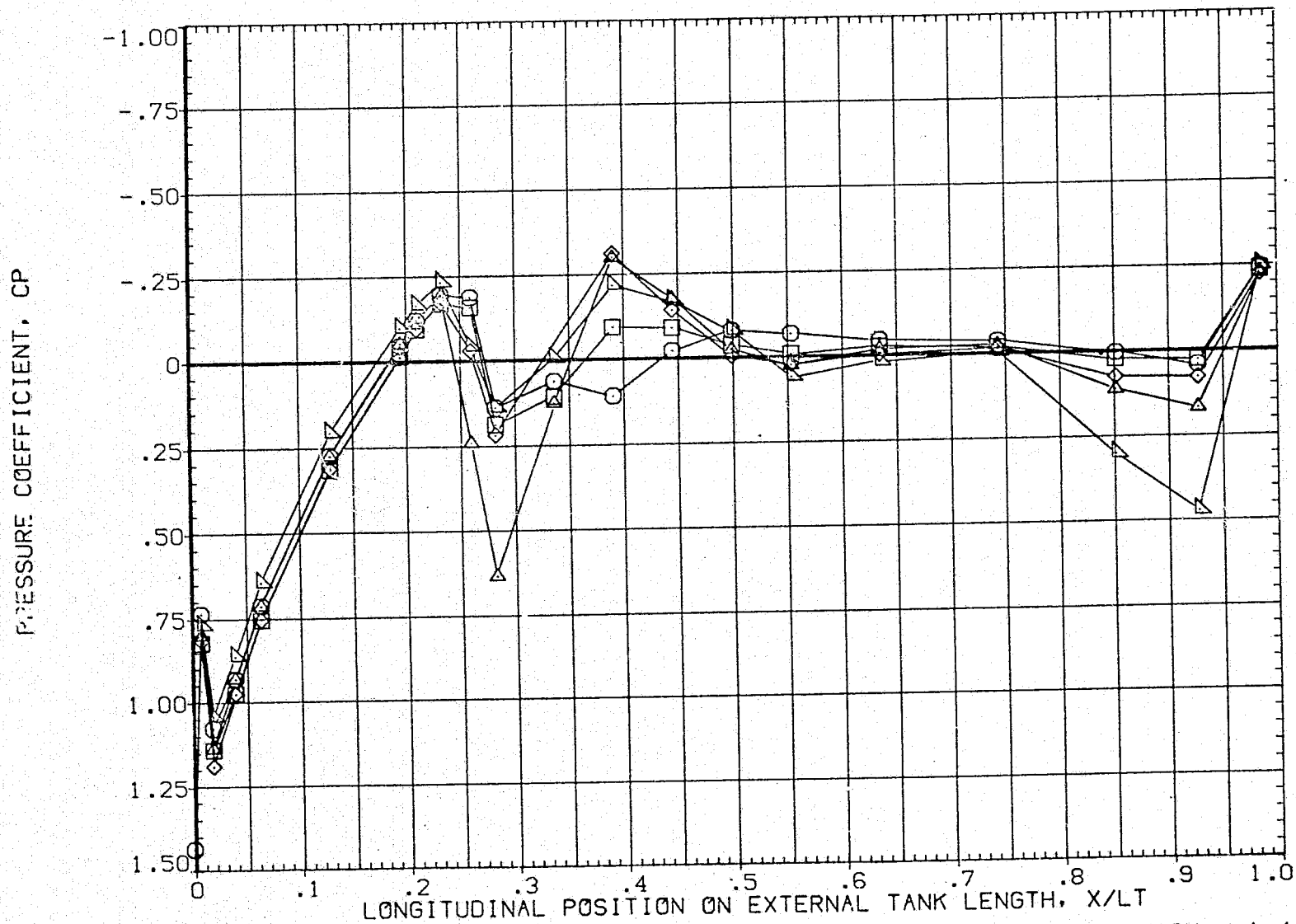


FIG. 61 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/0, SPDBRK = 0, MACH = 1.4

ARC11-019 1A81 LVAP(ELHL SEALED) EXTERNAL TANK (IETT12)

SYMBOL	PHI	BETAT	ALPHAT
○	135.000	-4.000	4.000
□	147.000		
◇	162.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-1B	8.000	ELV-0B	.000
RUDDER	.000	SPDBRK	.700

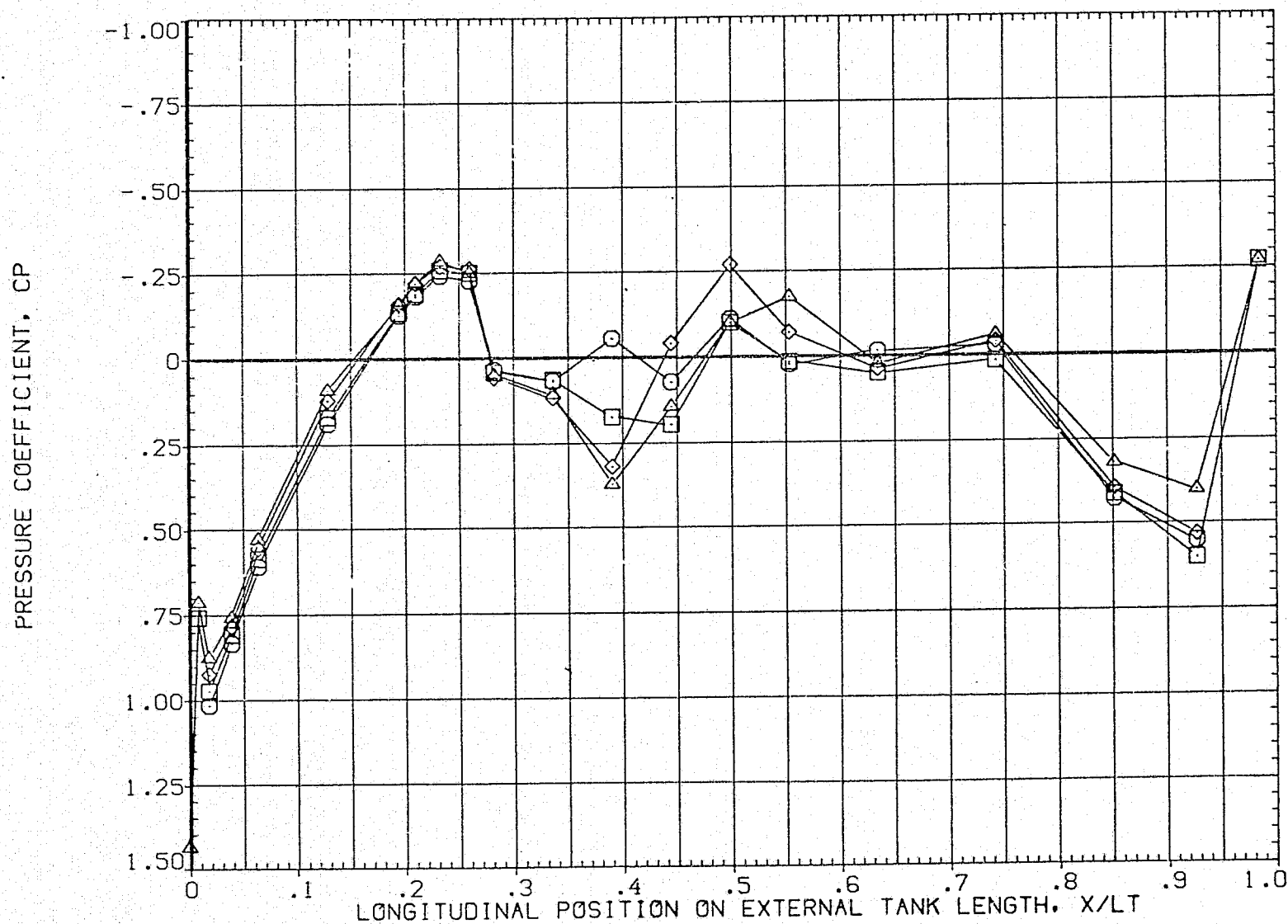


FIG. 61 EXT TANK LONG. PRESSURE DIST. ELEVON 1/0 = 8/0, SPDBRK = 0, MACH = 1.4

ARC11-019 IA81 LVAP(ELHL SEALED) EXTERNAL TANK (IETT12)

SYMBOL	PHI	BETAT	ALPHAT
○	.000	.000	4.000
□	30.000		
◇	60.000		
△	90.000		
▽	120.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-1B	8.000	ELV-0B	.000
RUDDER	.000	SPDBRK	.000

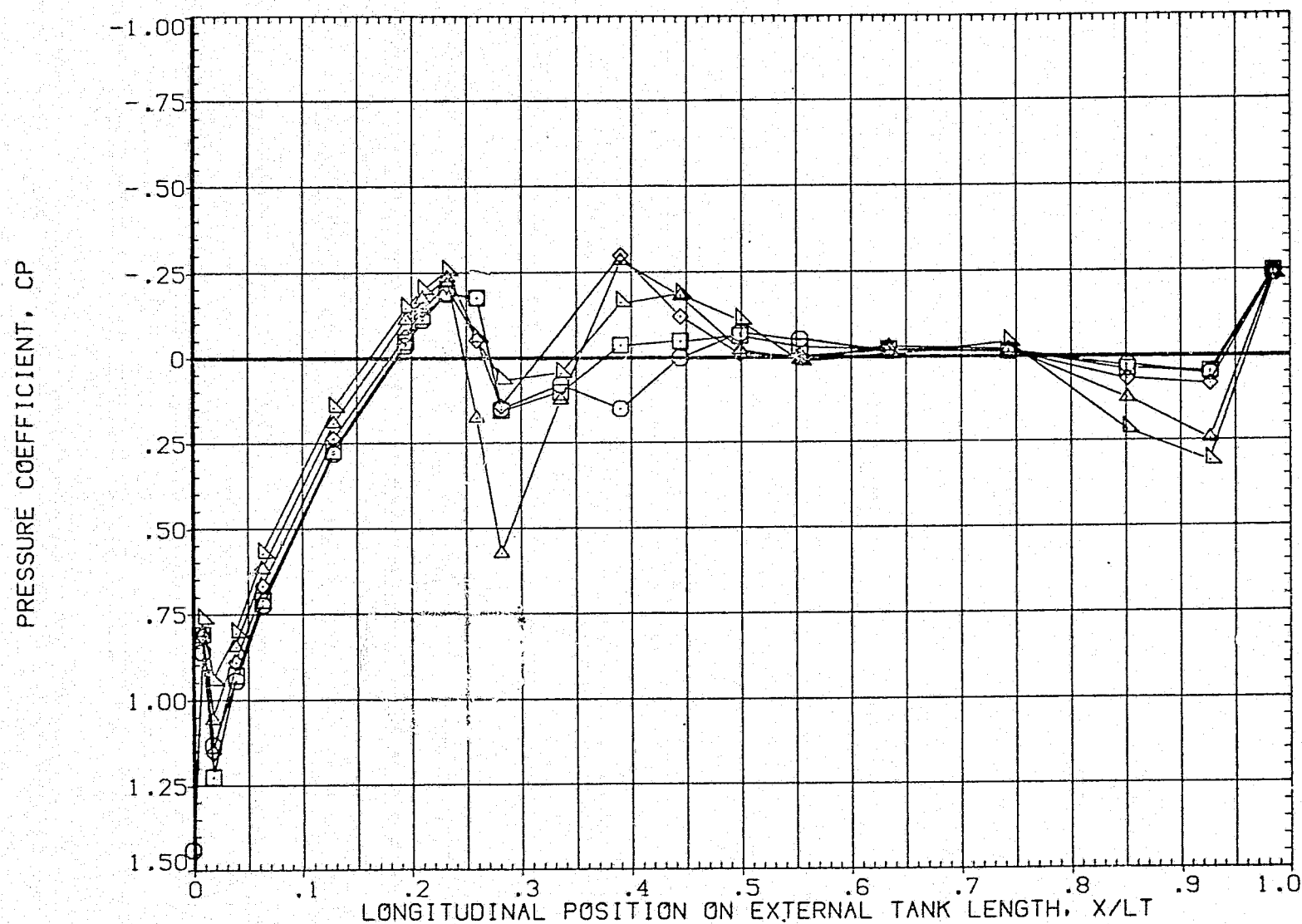


FIG. 61 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/0, SPDBRK = 0, MACH = 1.4

ARC11-019 1A81 LVAP(ELHL SEALED) EXTERNAL TANK (IETT12)

SYMBOL	RHI	BETAT	ALPHAT
○	135.000	.000	4.000
□	147.000		
◇	162.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-IB	8.000	ELV-OB	.000
RUDDER	.000	SPDBRK	.000

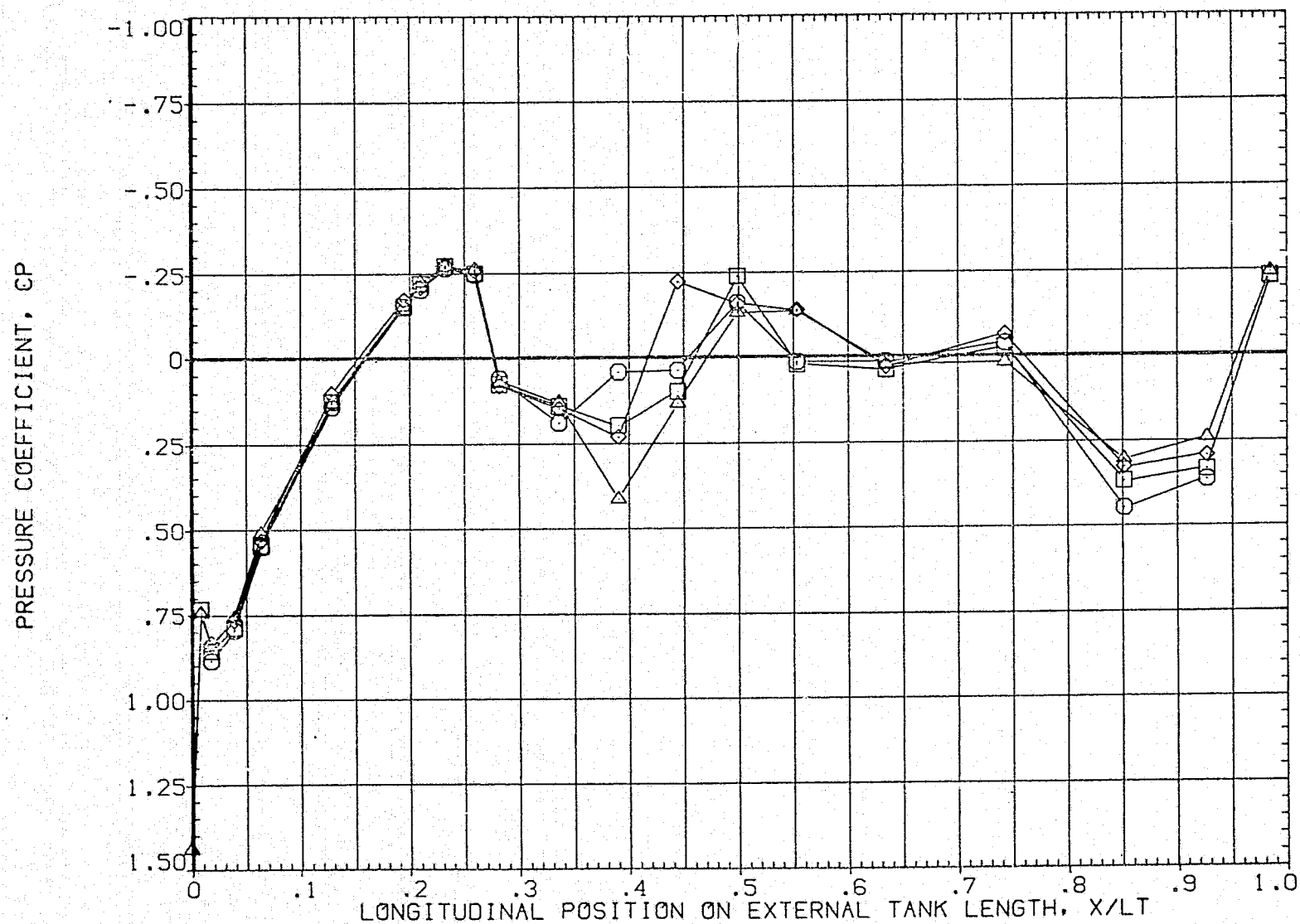


FIG. 61 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/O, SPDBRK = 0, MACH = 1.4

SYMBOL	PHI	BETAT	ALPHAT
○	.000	4.000	4.000
□	30.000		
◇	60.000		
△	90.000		
▽	120.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-IB	8.000	ELV-OB	.000
RUDDER	.000	SPDBRK	.000

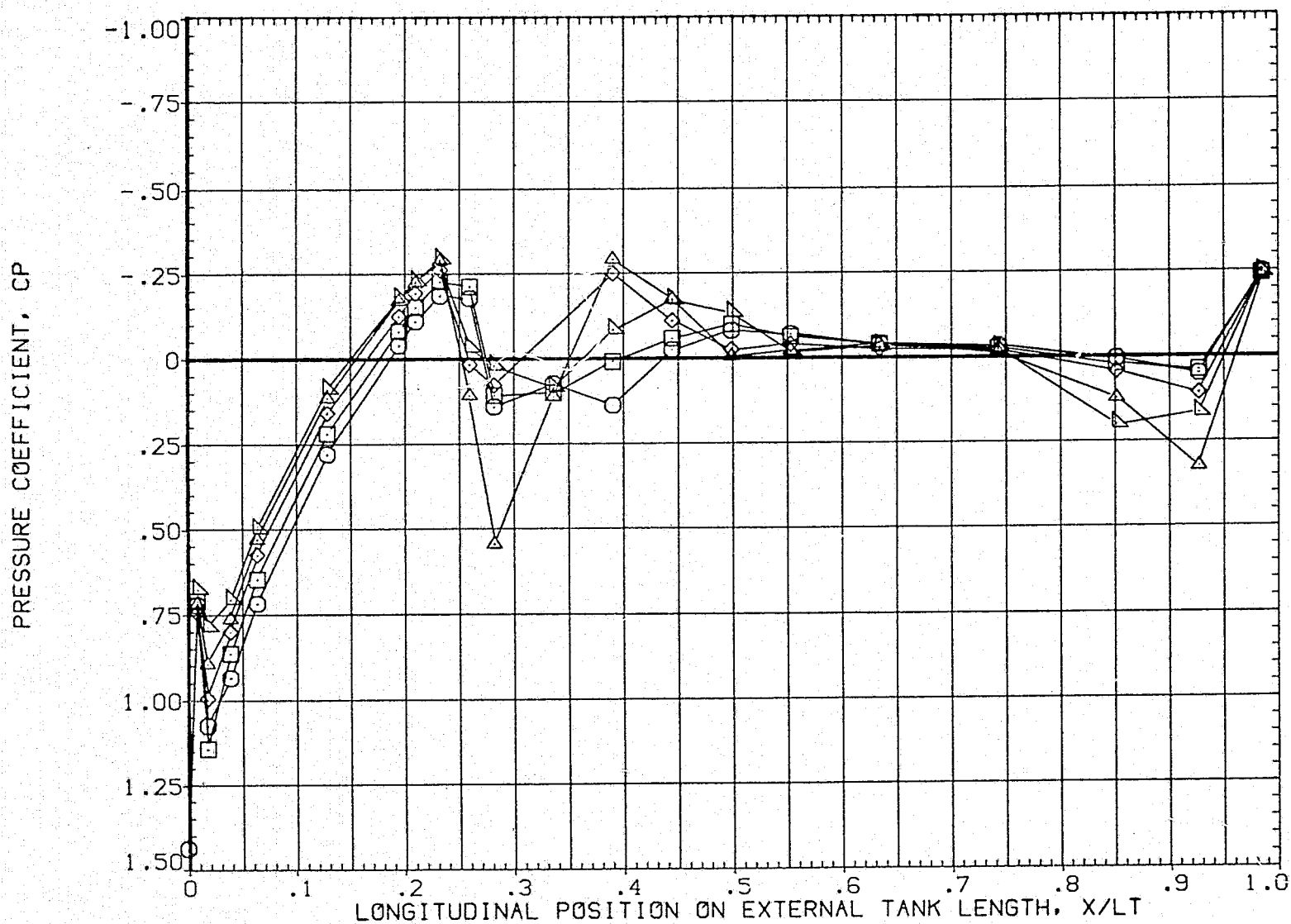


FIG. 61 EXT TANK LONG. PRESSURE DIST. ELEVON I/O = 8/O, SPDBRK = 0, MACH = 1.4

ARC11-019 IA81 LVAP(ELHL SEALED) EXTERNAL TANK (IETT12)

SYMBOL	PHI	BETAT	ALPHAT
○	135.000	4.000	4.000
□	147.000		
◇	162.000		
△	180.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-1B	8.000	ELV-0B	.000
RUDDER	.000	SPDBRK	.000

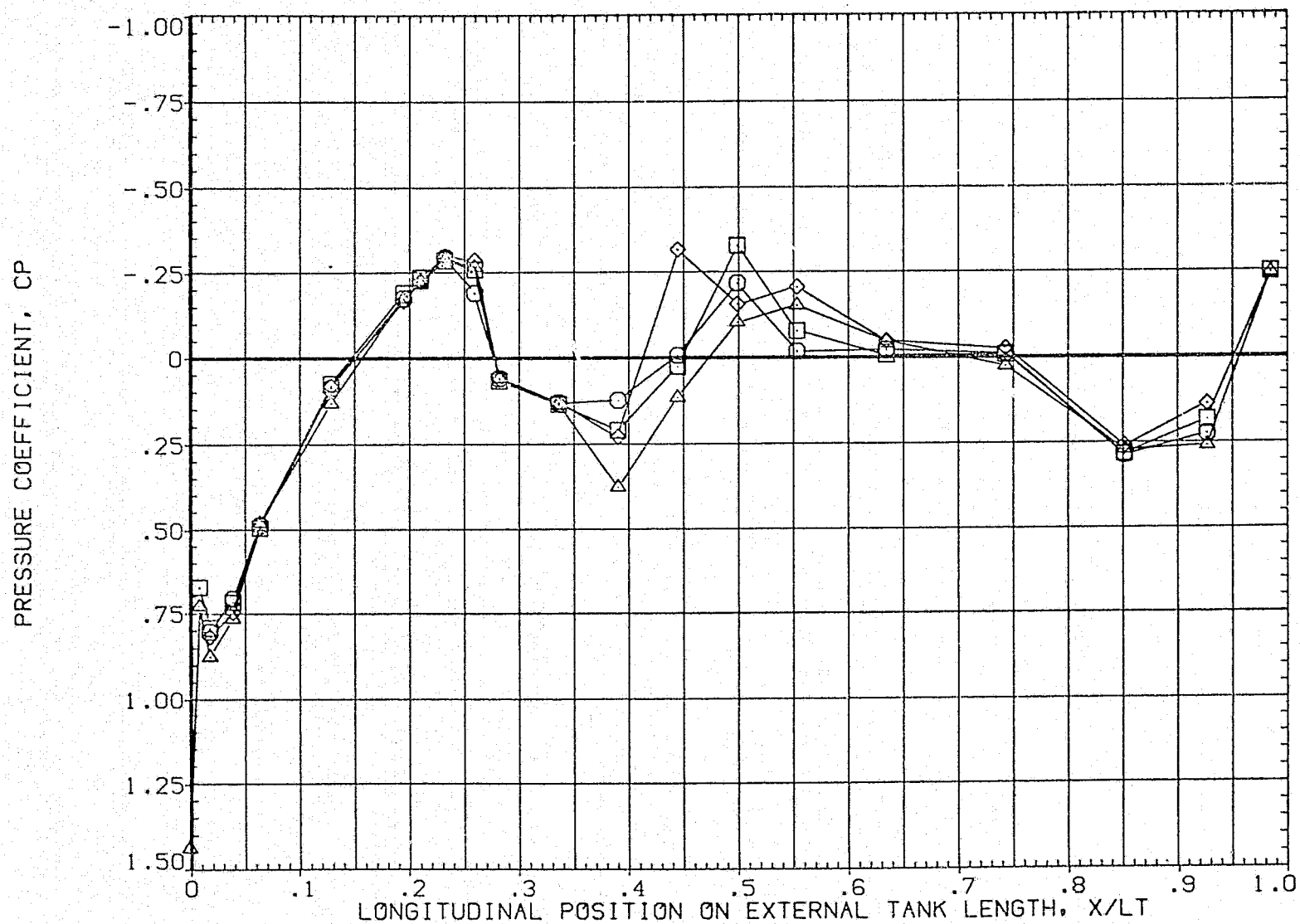


FIG. 61 EXT TANK LONG. PRESSURE DIST. ELEVON 1/0 = 8/0, SPDBRK = 0, MACH = 1.4

SYMBOL	PHI	BETAL	ALPHAL
○	.000	-4.000	-4.000
□	45.000		
◇	90.000		
△	135.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

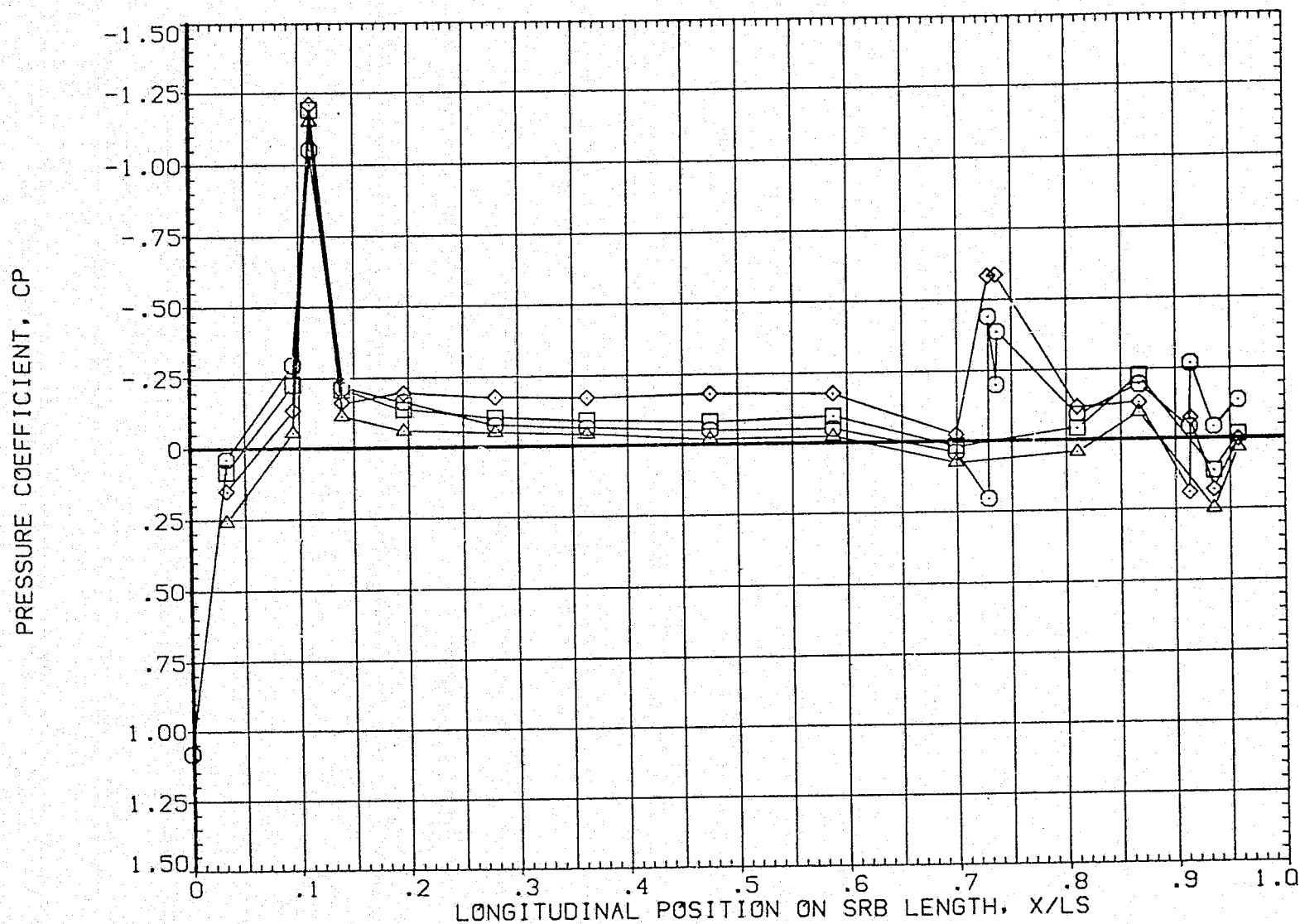


FIG. 62 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

ARC11-019 1A81 LVAP(ELHL UNSEALD) SRM BOOSTER (IETS06)

SYMBOL	PHI	BETAL	ALPHA
○	180.000	-4.000	-4.000
□	225.000		
◇	270.000		
△	315.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

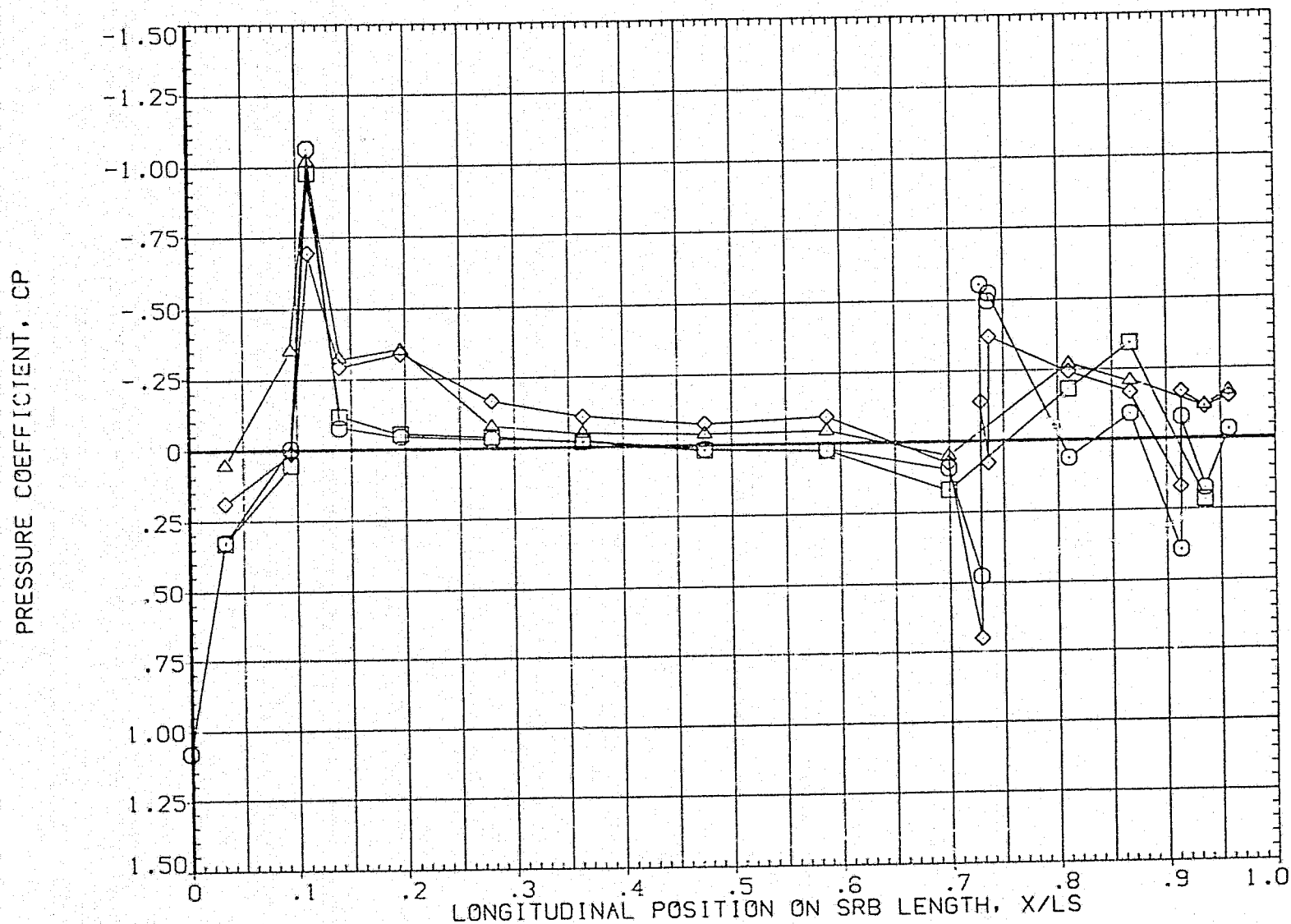


FIG. 62 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER (IETS06)

SYMBOL	PHI	BETAL	ALPHAL
○	.000	.000	-4.000
□	45.000		
◇	90.000		
△	135.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

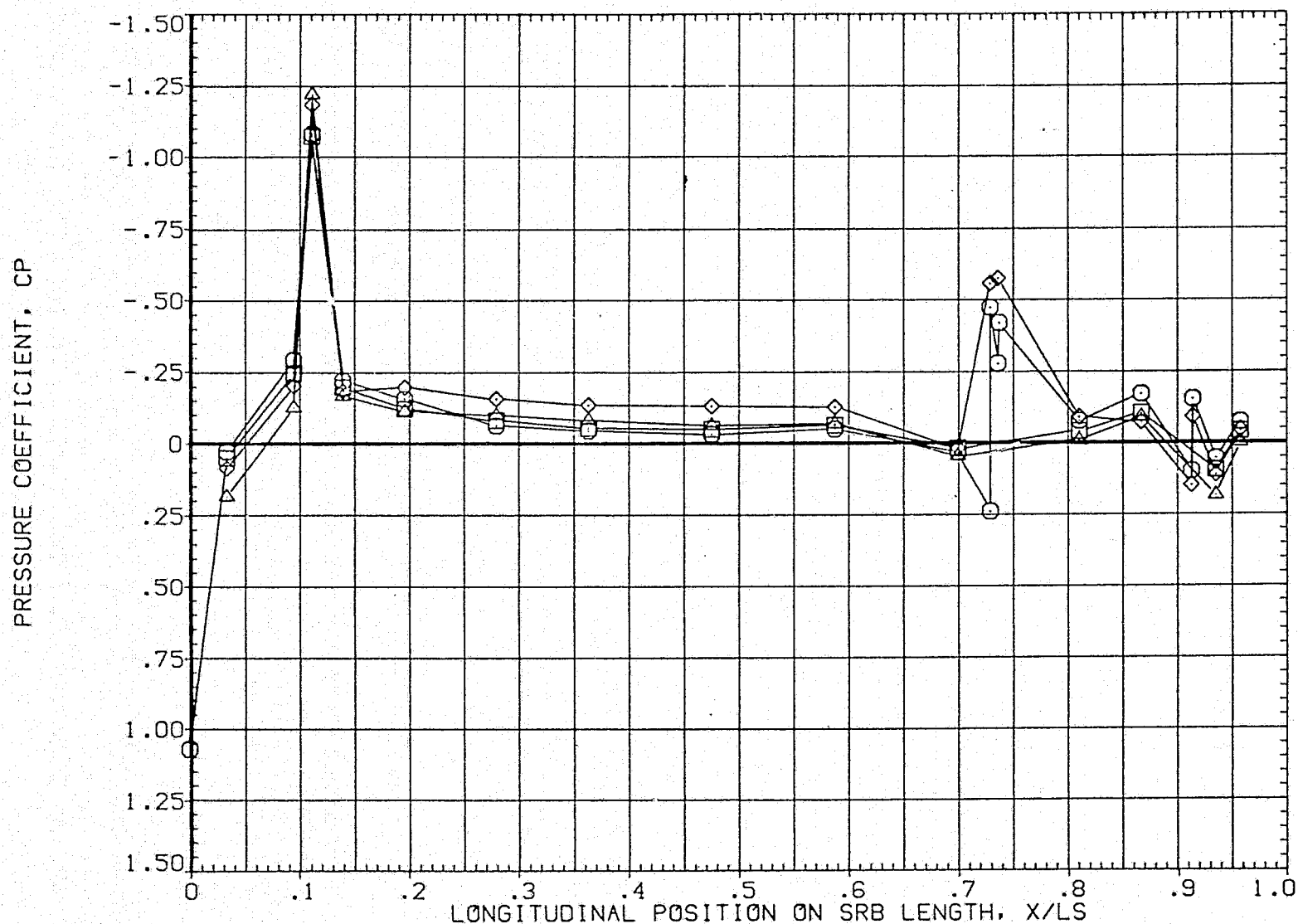


FIG. 62 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER (IETS06)

SYMBOL	PHI	BETAL	ALPHAL
○	180.000	.000	-4.000
□	225.000		
◇	270.000		
△	315.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

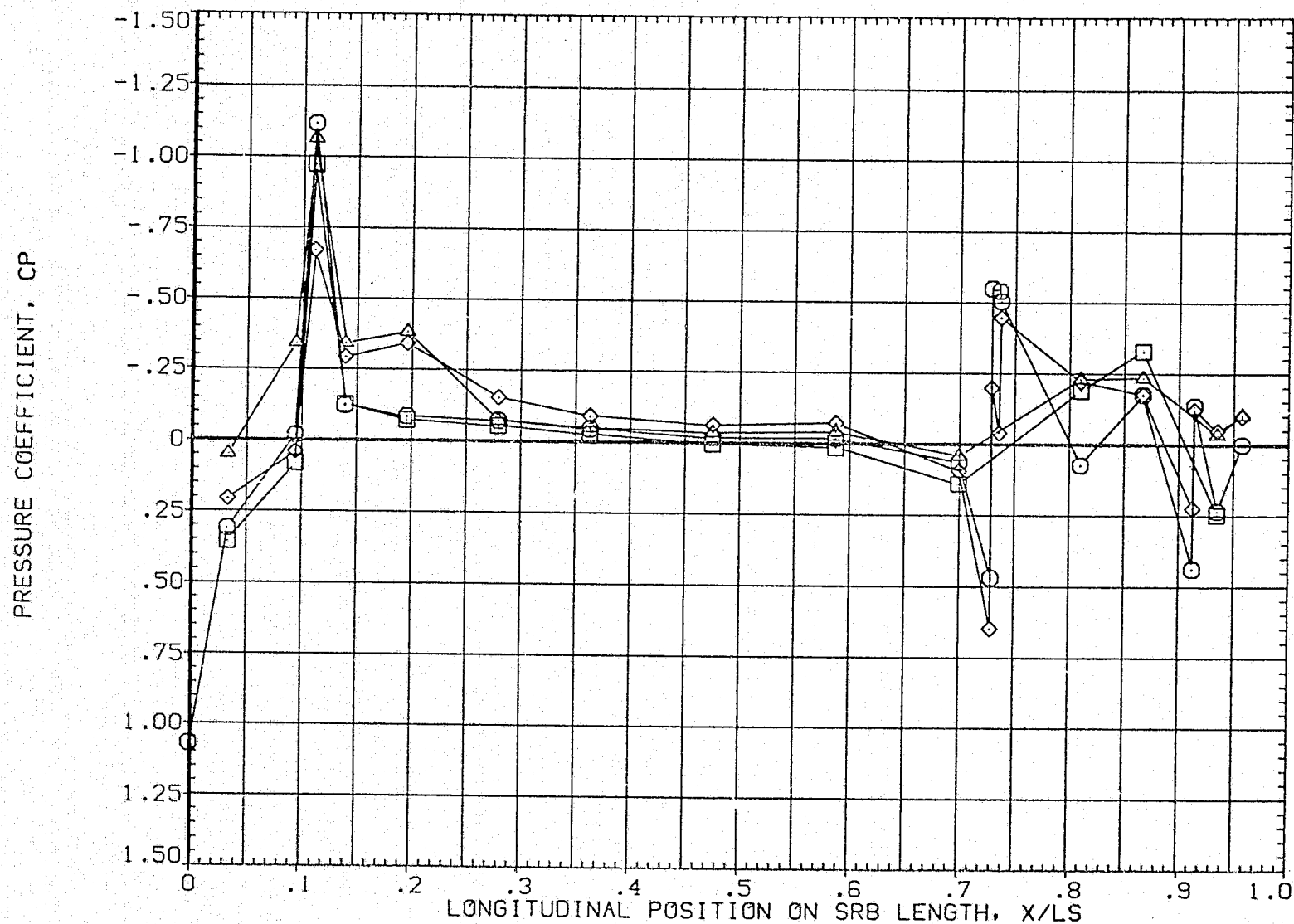


FIG. 62 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER (IETS06)

SYMBOL	PHI	BETAL	ALPHAL
○	.000	4.000	-4.000
□	45.000		
◇	90.000		
△	135.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

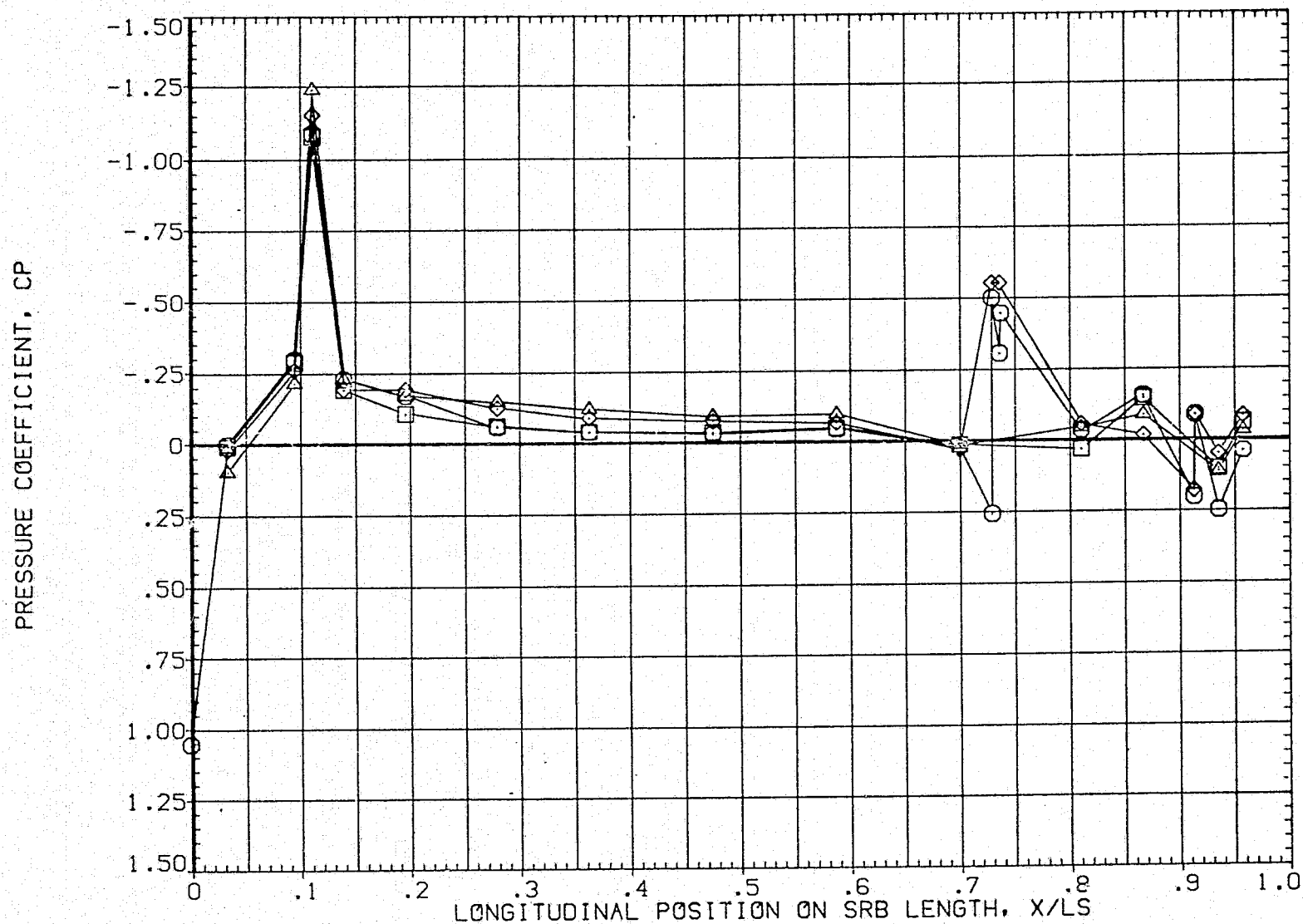


FIG. 62 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER (IETS06)

SYMBOL	PHI	BETAL	ALPHAL
○	180.000	4.000	-4.000
□	225.000		
◇	270.000		
△	315.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

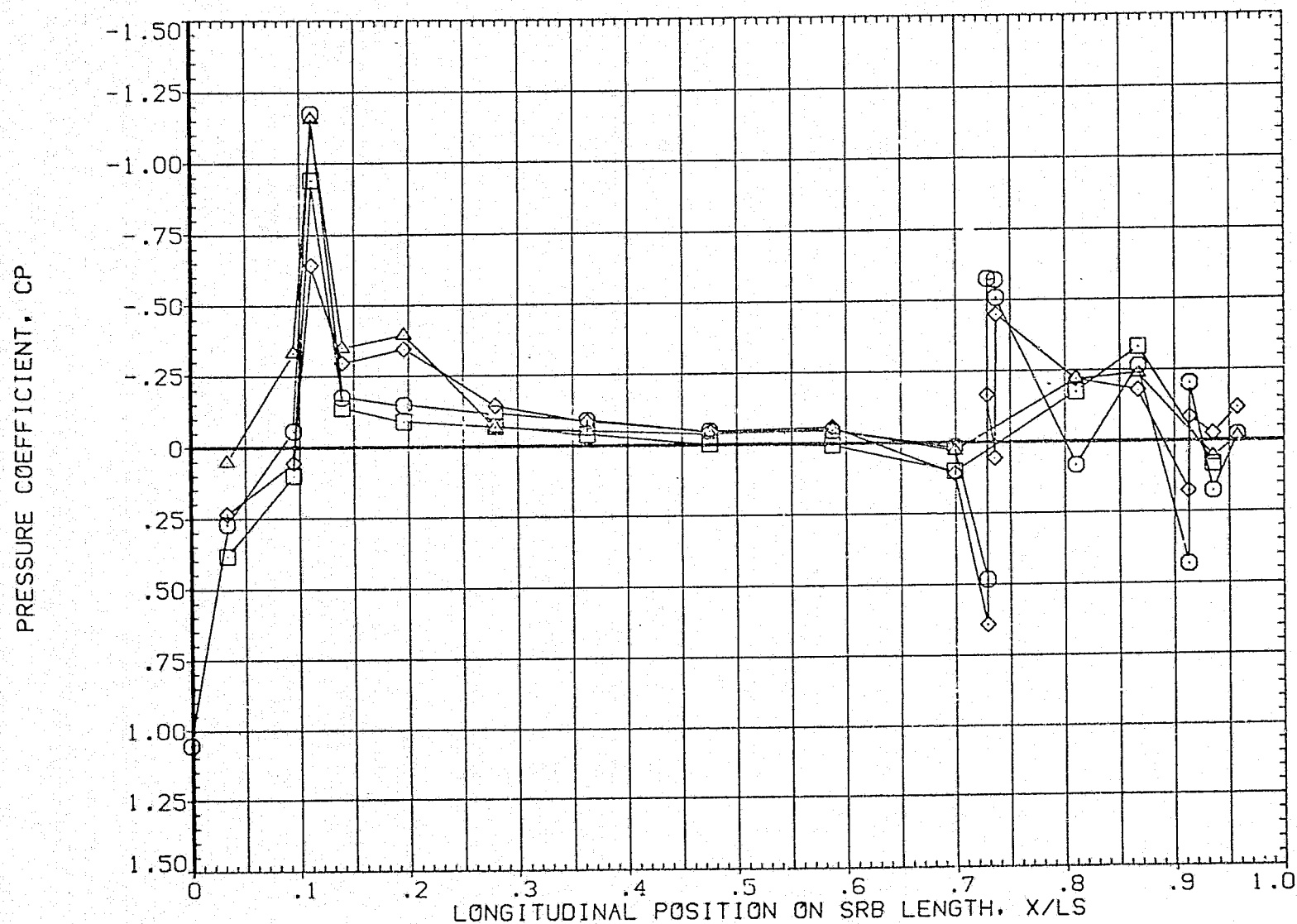


FIG. 62 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

ARC11-019 1A81 LVAP(ELHL UNSEALD) SRM BOOSTER (IETS06)

SYMBOL	PHI	BETAL	ALPHAL
○	.000	-4.000	.000
□	45.000		
◇	90.000		
△	135.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

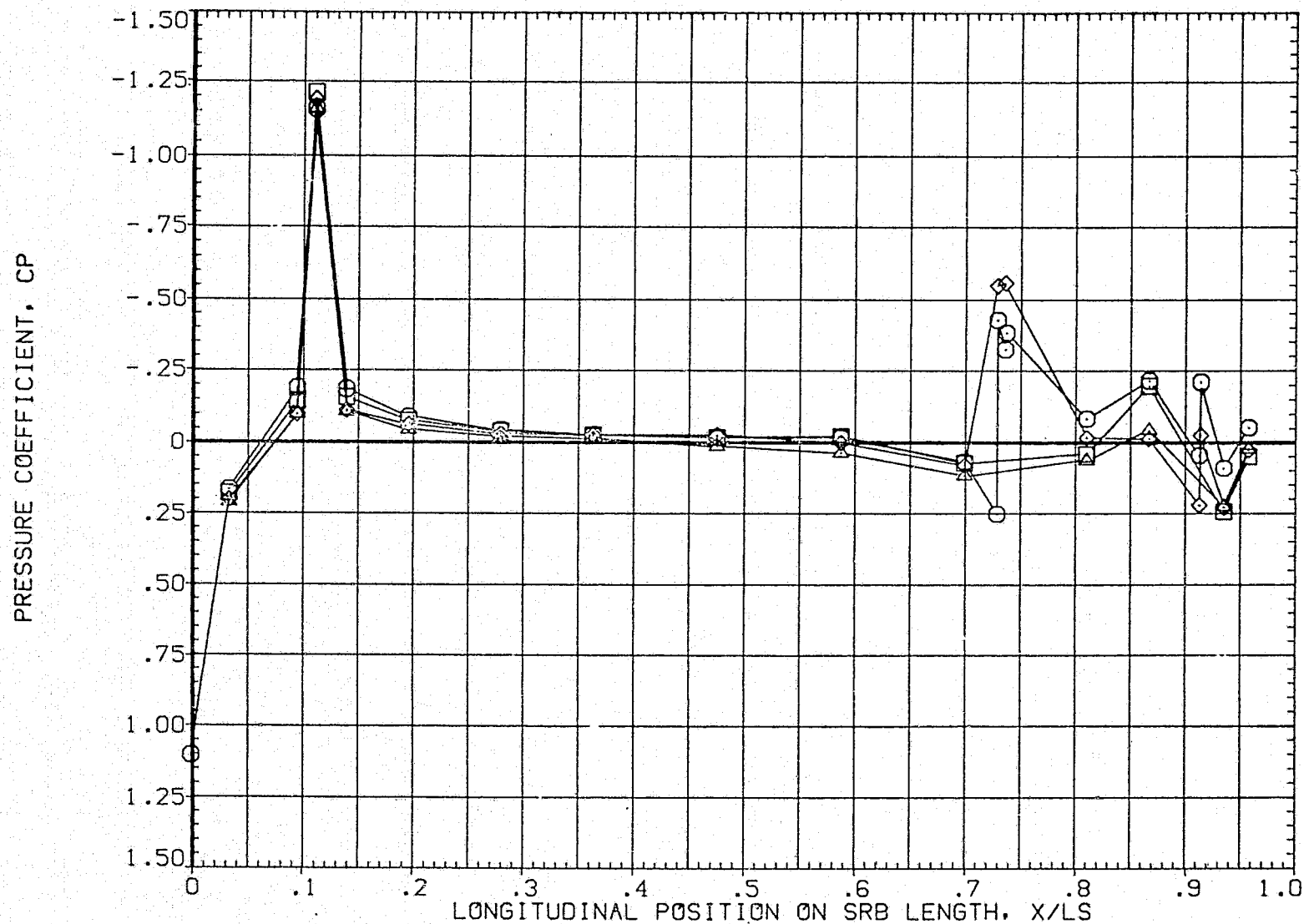


FIG. 62 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER (IETS06)

SYMBOL	PHI	BETAL	ALPHAL
○	180.000	-4.000	.000
□	225.000		
◇	270.000		
△	315.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

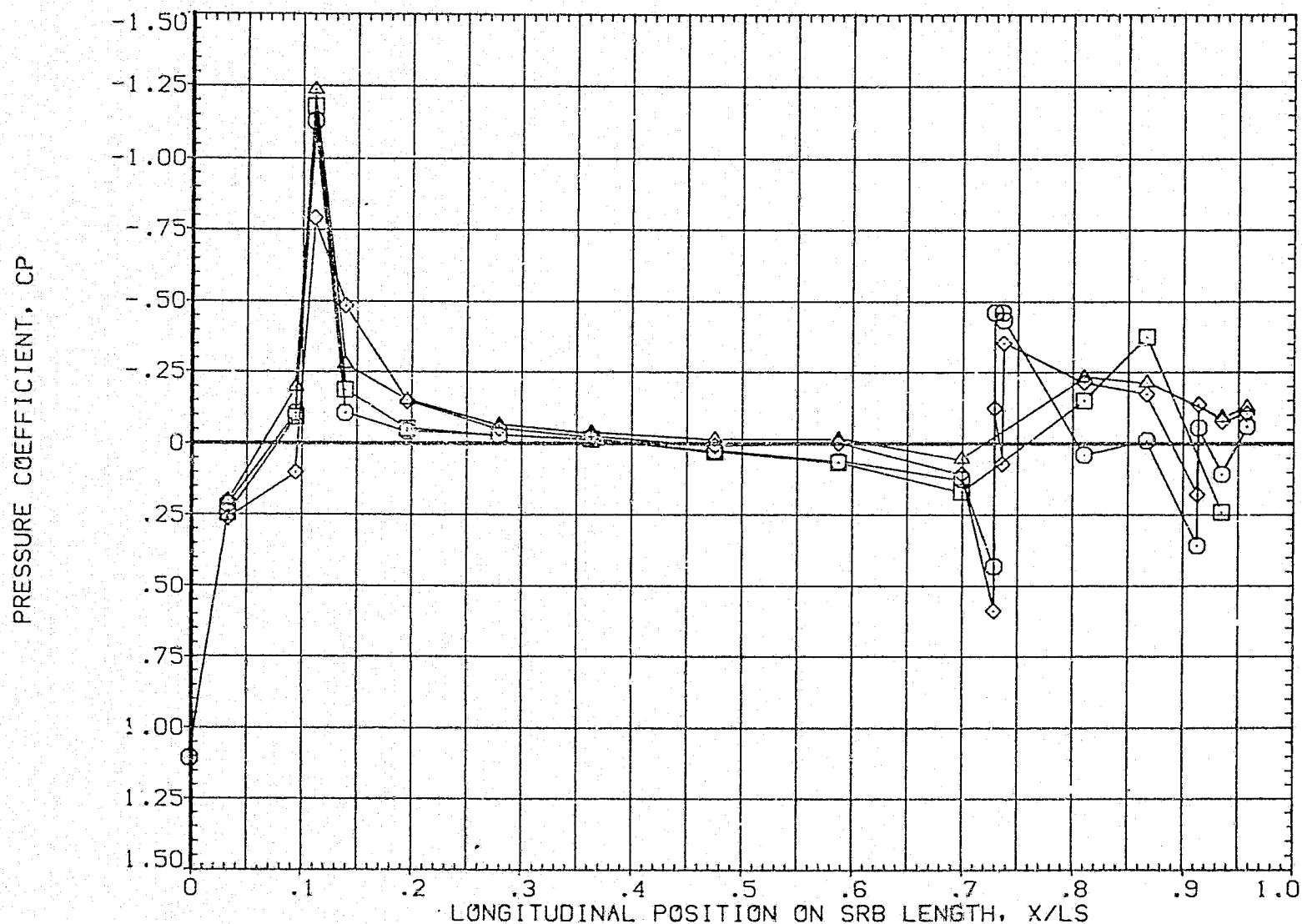


FIG. 62 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

ARC11-019 1A81 LVAP(ELHL UNSEALD) SRM BOOSTER (IETS06)

SYMBOL	PHI	BETAL	ALPHAL
○	.000	.000	.000
□	45.000		
◇	90.000		
△	135.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

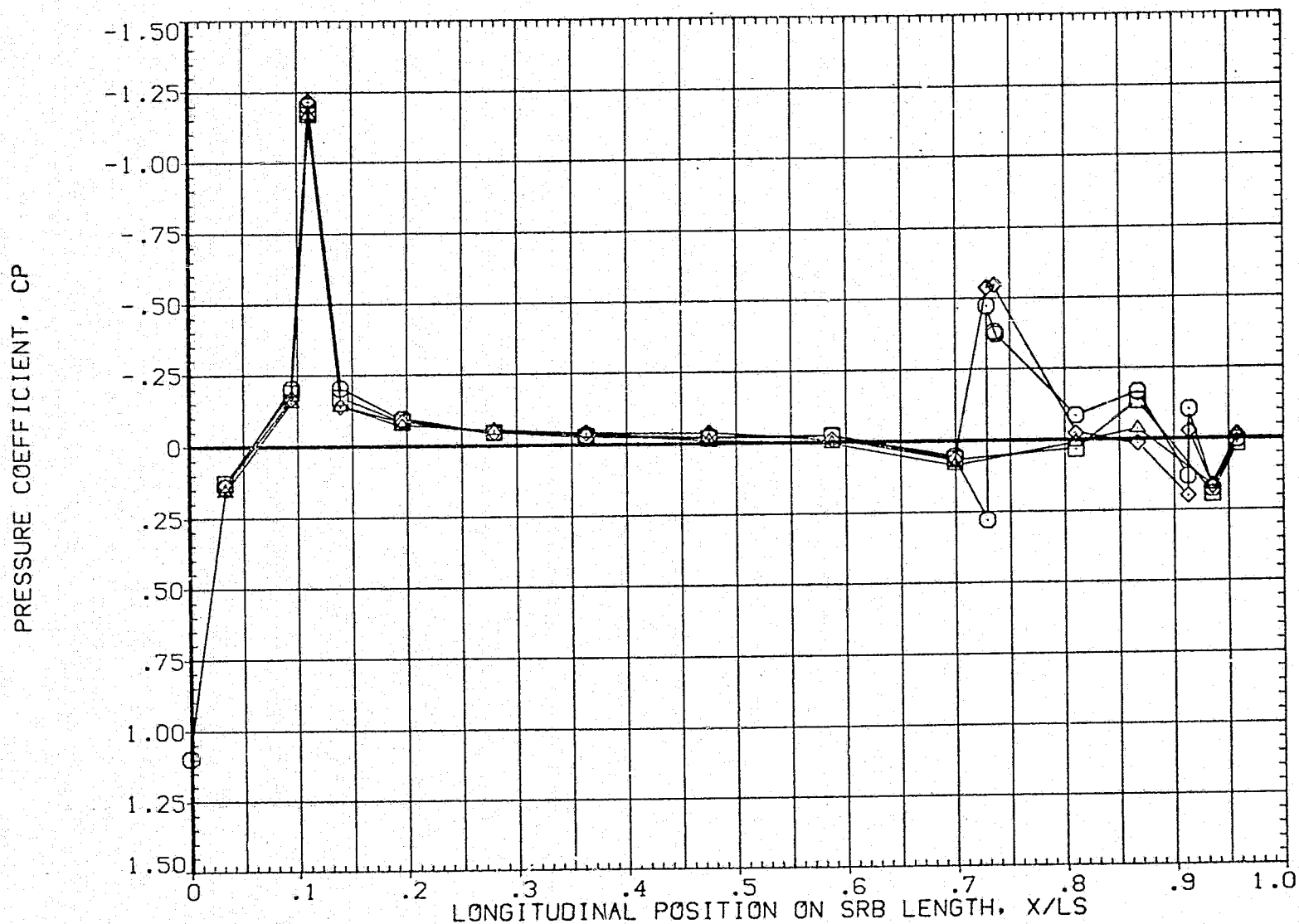


FIG. 62 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER (IETS06)

SYMBOL	PHI	BETAL	ALPHAL
○	180.000	.000	.000
□	225.000		
◇	270.000		
△	315.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

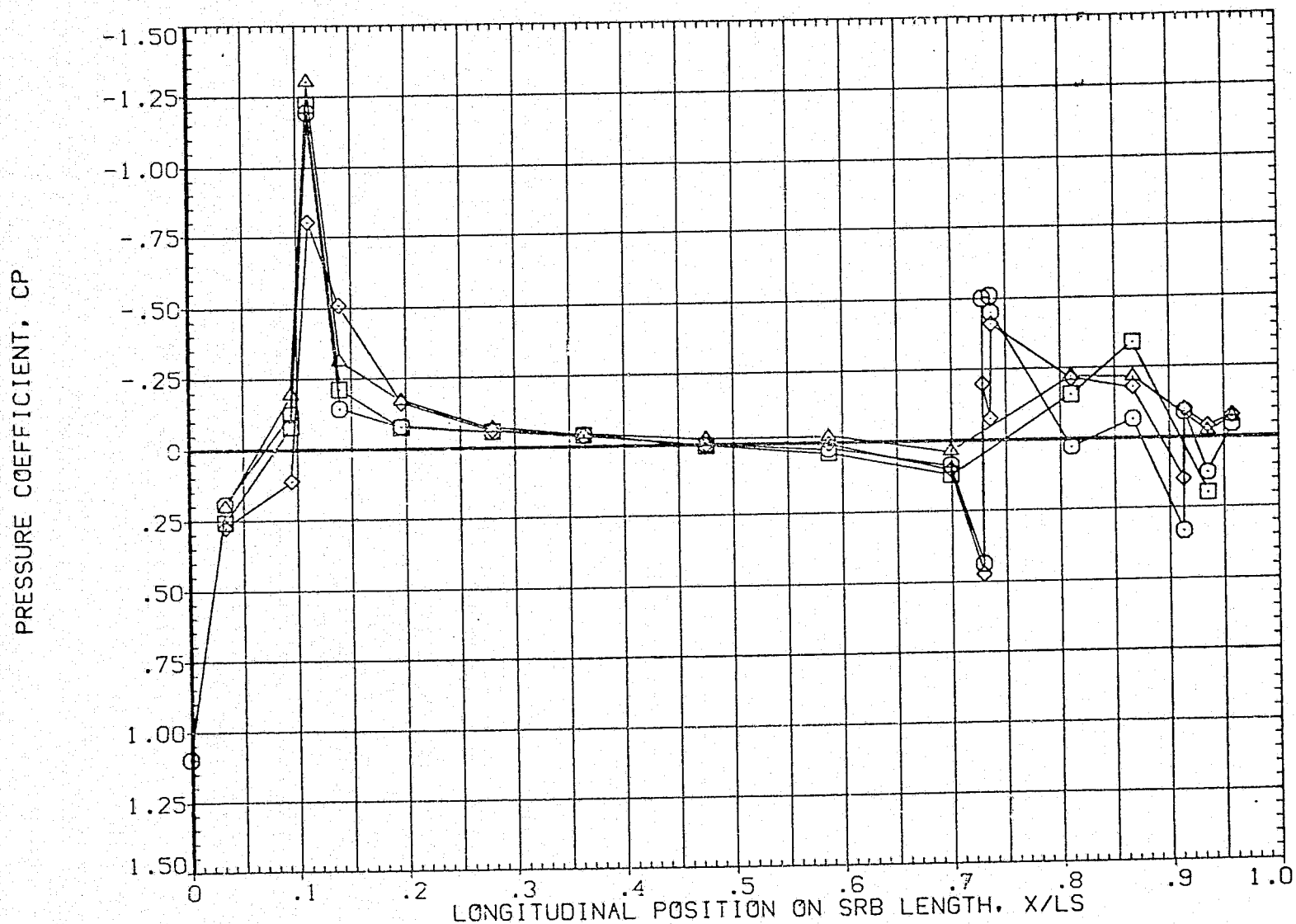


FIG. 62 SRB LONG. PRESSURE DIST. ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 0.6

ARC11-019 1A81 LVAP(ELHL UNSEALD) SRM BOOSTER (IETS06)

SYMBOL	PHI	BETAL	ALPHAL
○	.000	4.000	.000
□	45.000		
◇	90.000		
△	135.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-IB	8.000	ELV-OR	4.000
RUDDER	.000	SPDBRK	.000

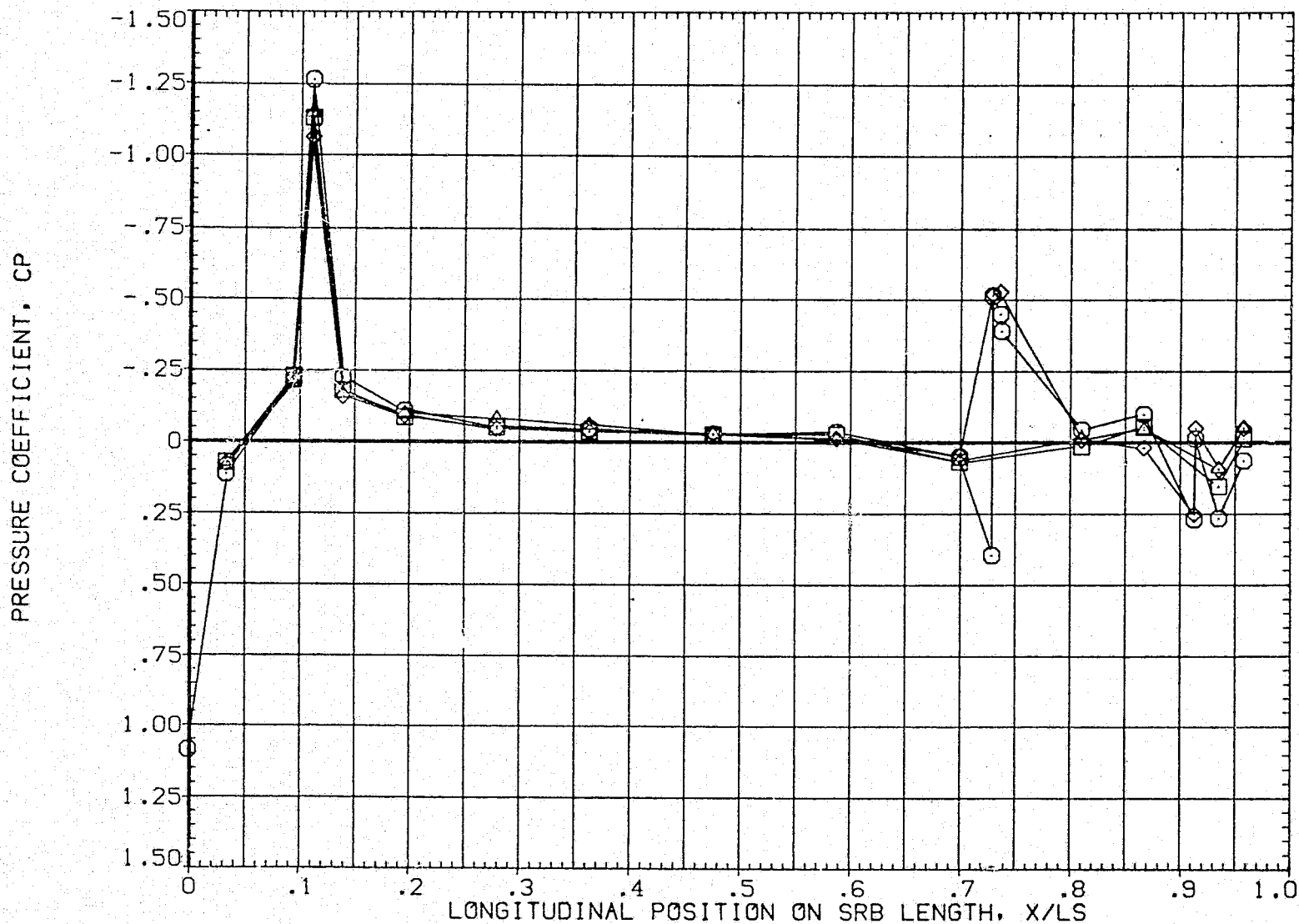


FIG. 62 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

ARC11-019 1A81 LVAP(ELHL UNSEALD) SRM BOOSTER (IETS06)

SYMBOL	PHI	BETAL	ALPHAL
○	180.000	4.000	.000
□	225.000		
◇	270.000		
△	315.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

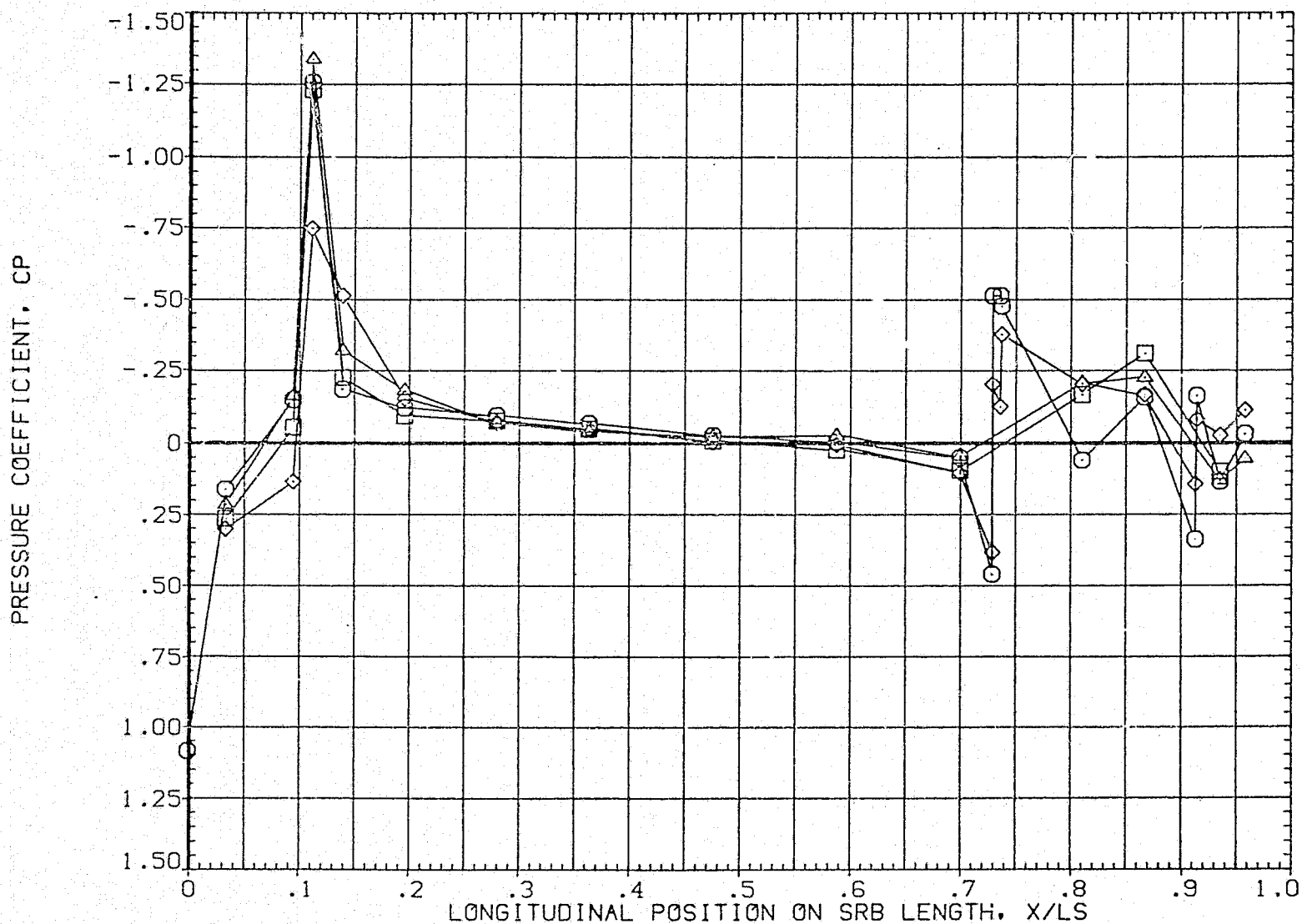


FIG. 62 SRB LONG. PRESSURE DIST. ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 0.6

SYMBOL	PHI	BETAL	ALPHAL
○	000	-4.000	4.000
□	45.000		
◇	90.000		
△	135.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

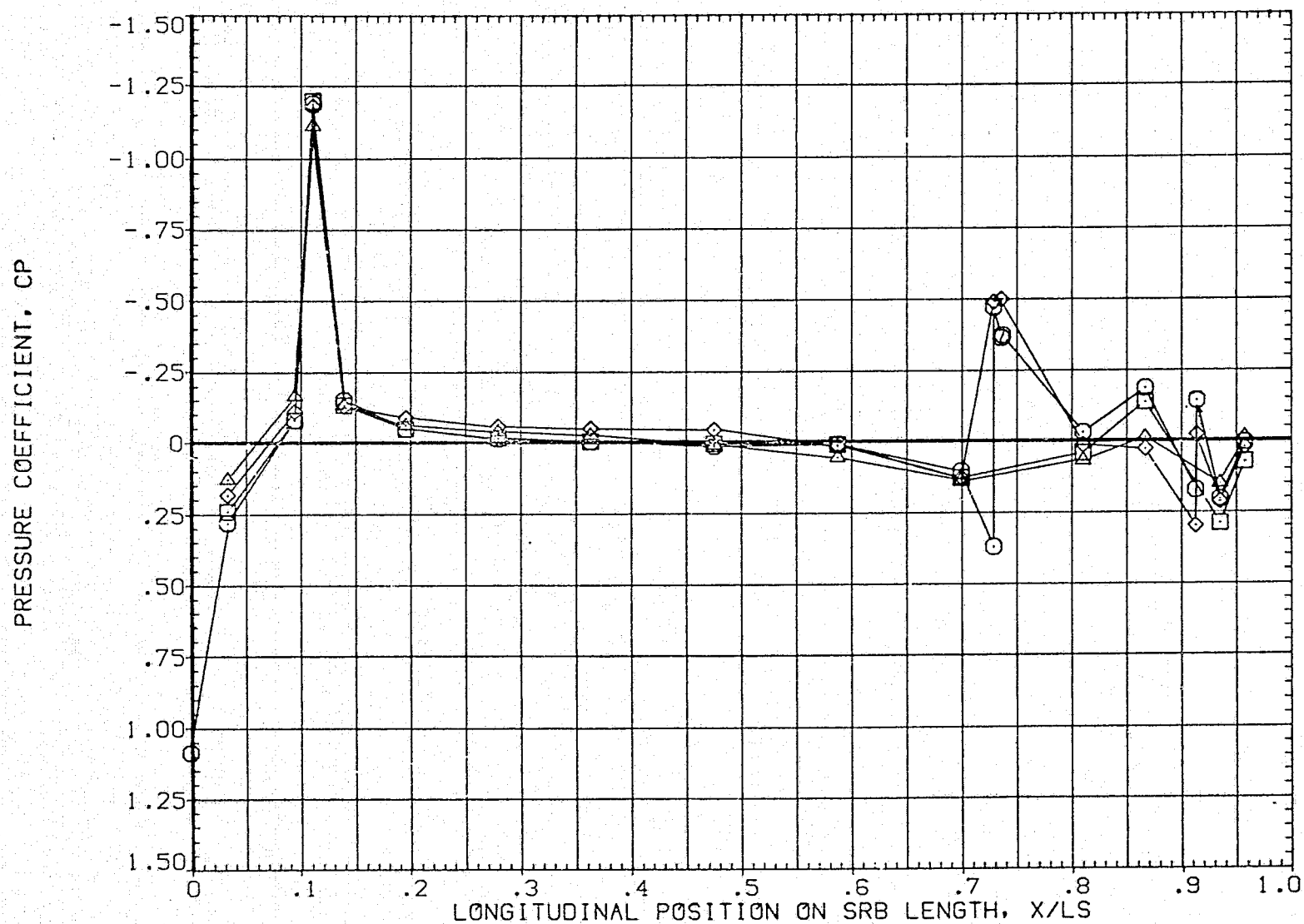


FIG. 62 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

ARC11-019 1A81 LVAP(ELHL UNSEALD) SRM BOOSTER (IETS06)

SYMBOL	PHI	BETAL	ALPHAL
○	180.000	-4.000	4.000
□	225.000		
◇	270.000		
△	315.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

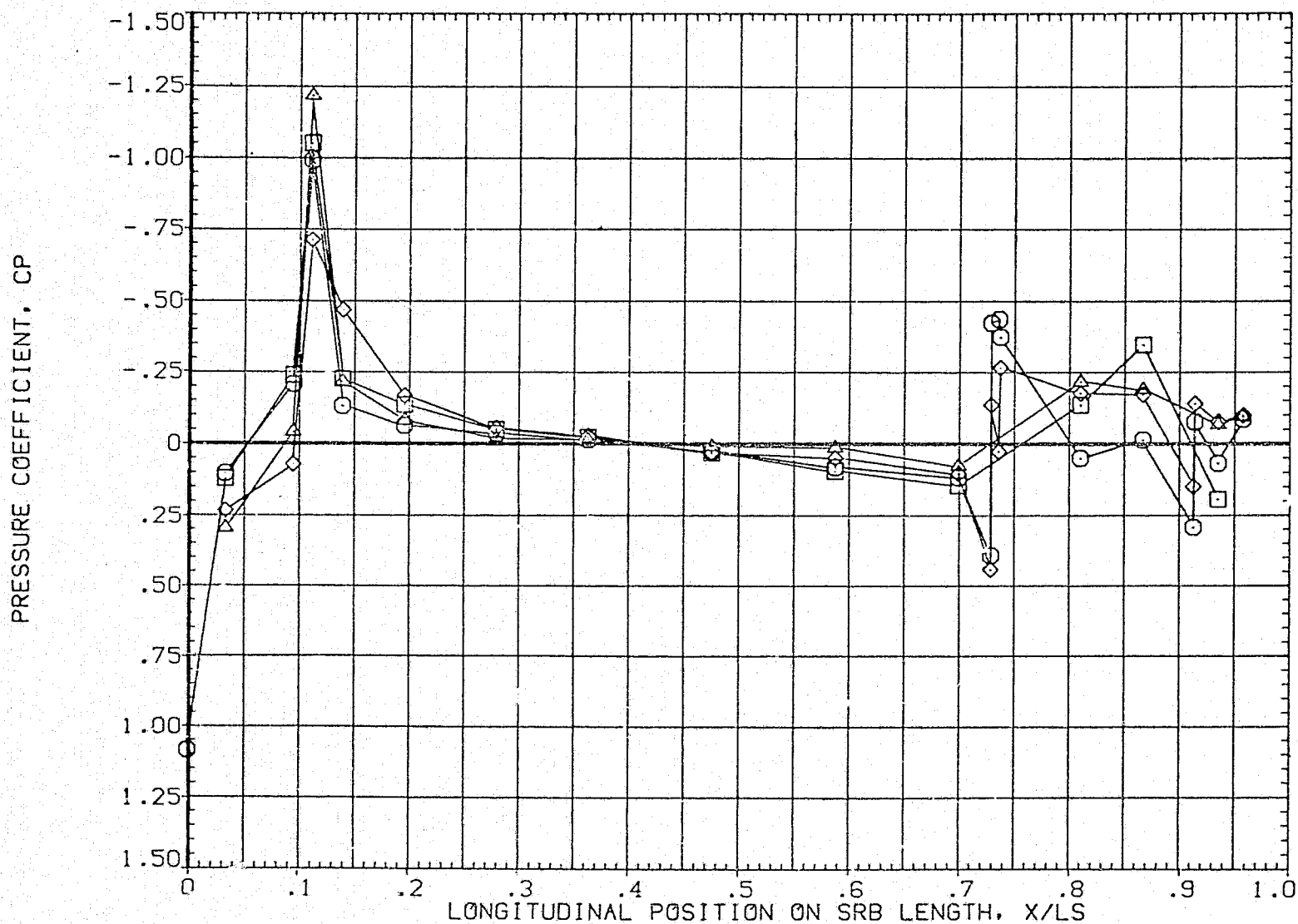


FIG. 62 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

SYMBOL	PHI	BETAL	ALPHAL
○	.000	.000	4.000
□	45.000		
◇	90.000		
△	135.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

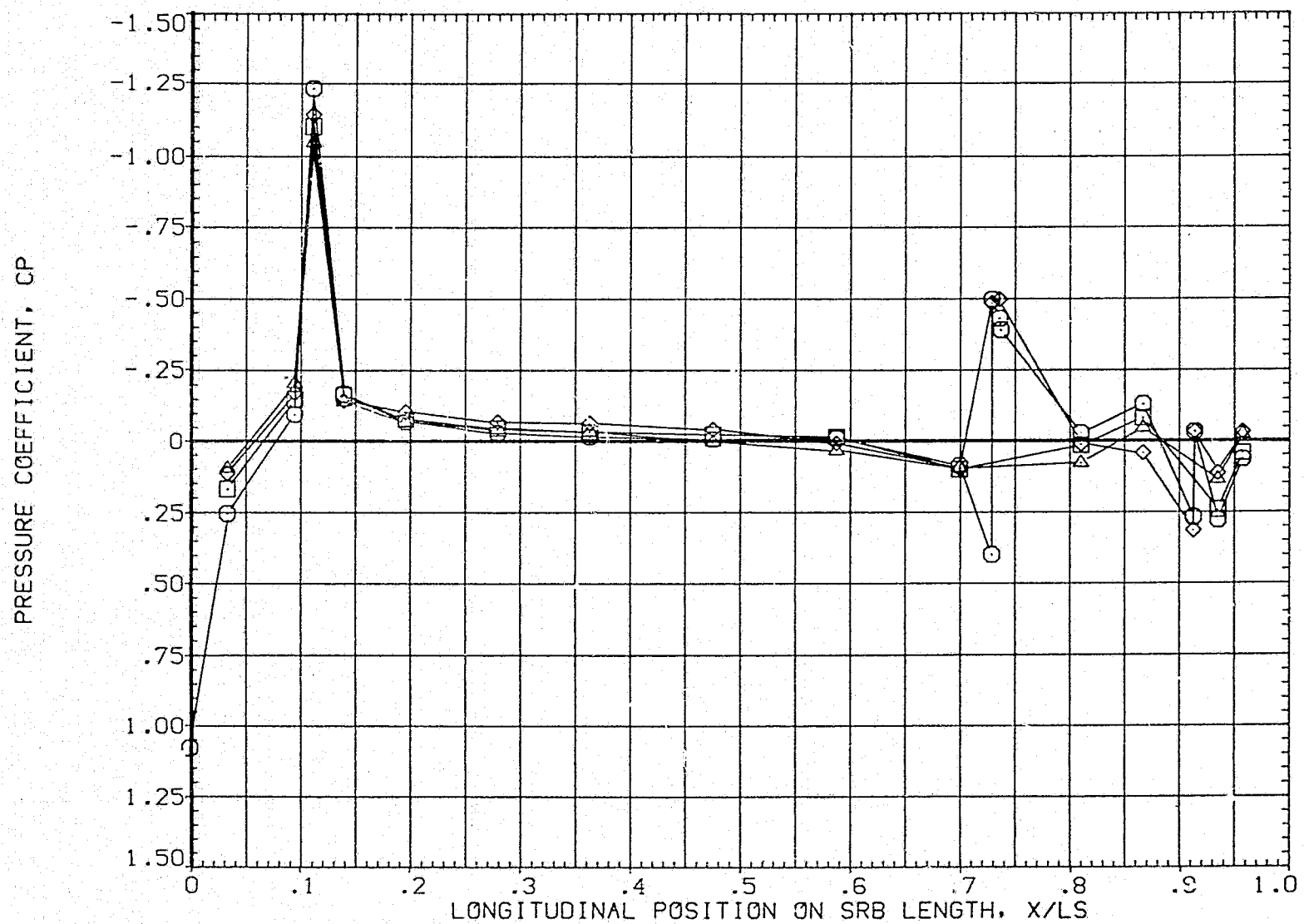


FIG. 62 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER (IETS06)

SYMBOL	PHI	BETAL	ALPHAL
○	180.000	.000	4.000
□	225.000		
◇	270.000		
△	315.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

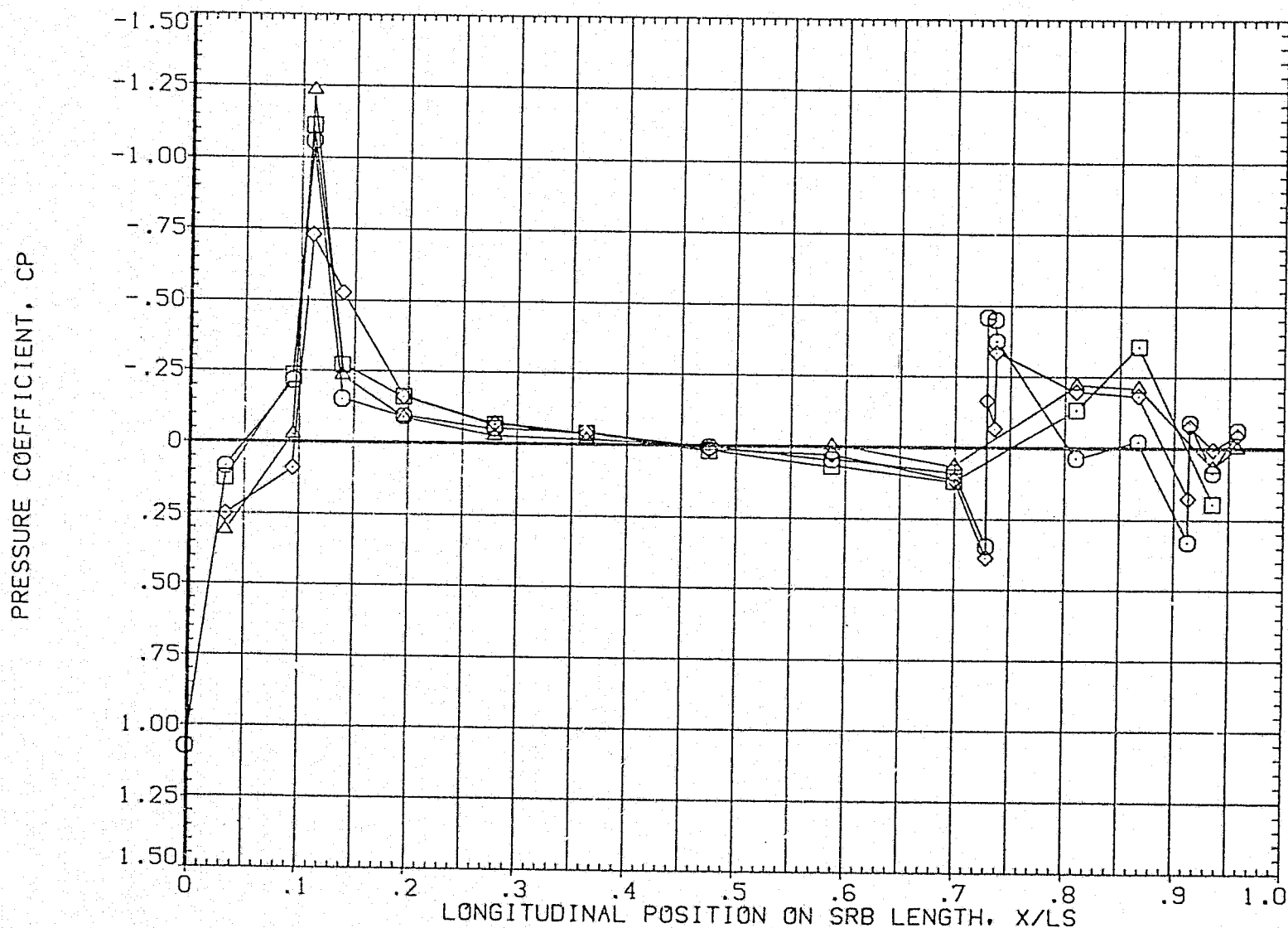


FIG. 62 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

ARC11-Q19 1A81 LVAP(ELHL UNSEALD) SRM BOOSTER (IETS06)

SYMBOL	PHI	BETAL	ALPHAL
○	.000	4.000	4.000
□	45.000		
◇	90.000		
△	135.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

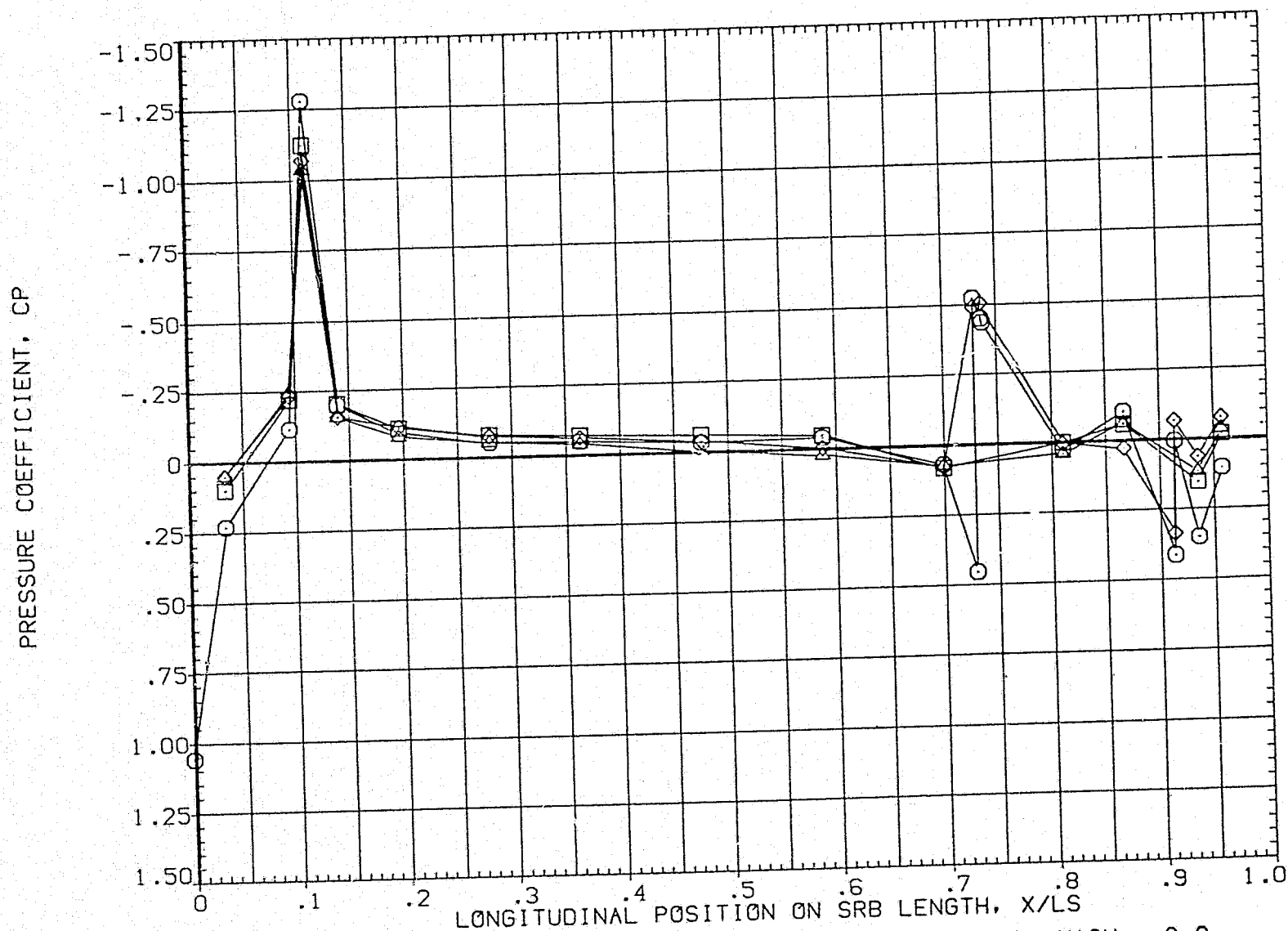


FIG. 62 SRB LONG. PRESSURE DIST. ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 0.6

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER (IETS06)

SYMBOL	PHI	BETAL	ALPHAL
○	180.000	4.000	4.000
□	225.000		
◇	270.000		
△	315.000		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

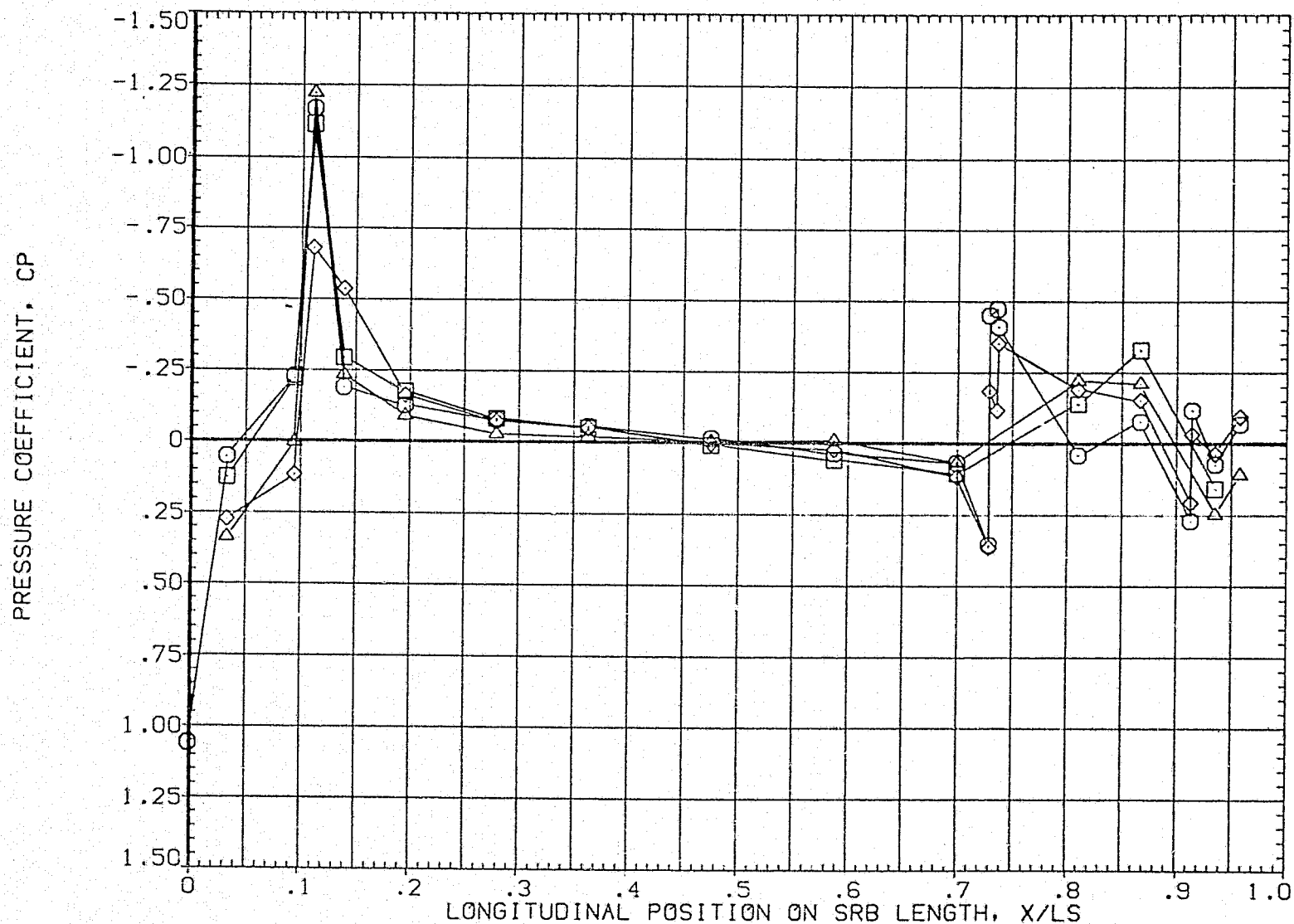


FIG. 62 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

SYMBOL	PHI	BETAL	ALPHAL
○	.000	-4.000	-4.000
□	45.000		
◇	90.000		
△	135.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

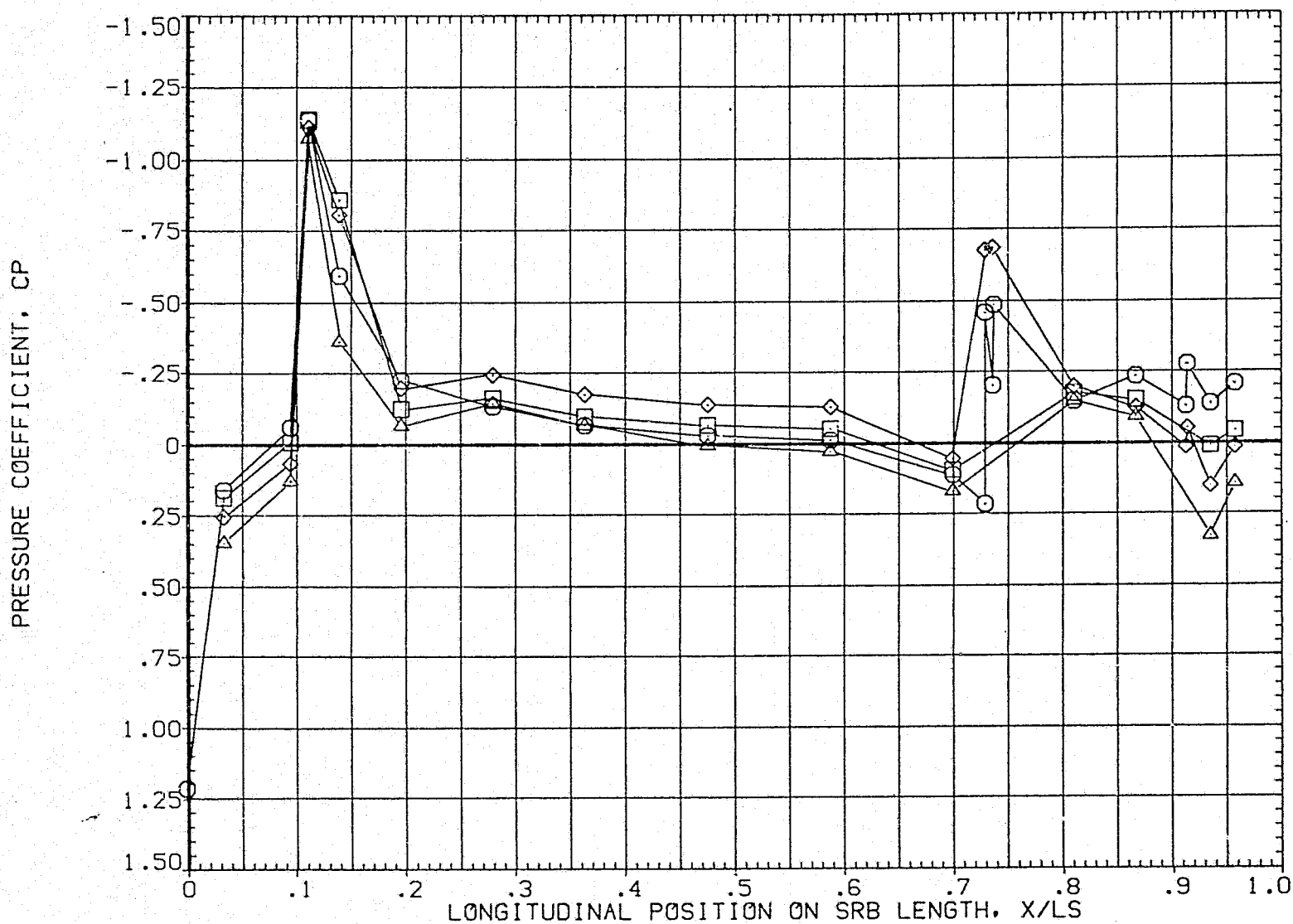


FIG. 63 SRB LONG. PRESSURE DIST. ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 0.9

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER (IETS07)

SYMBOL	PHI	BETAL	ALPHAL
○	180.000	-4.000	-4.000
□	225.000		
◇	270.000		
△	315.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

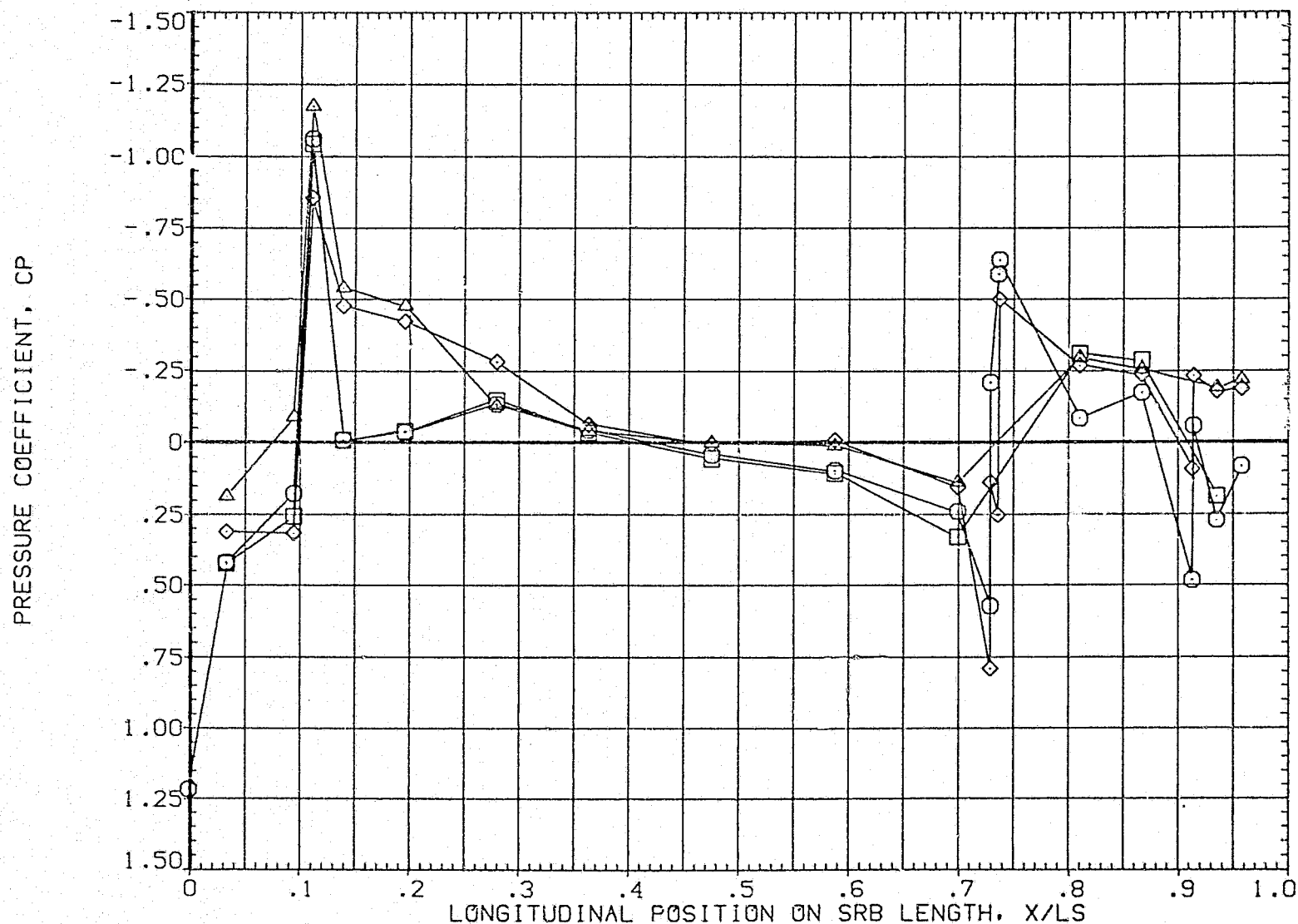


FIG. 63 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

SYMBOL	PHI	BETAL	ALPHAL
○	.000	.000	-4.000
□	45.000		
◇	90.000		
△	135.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

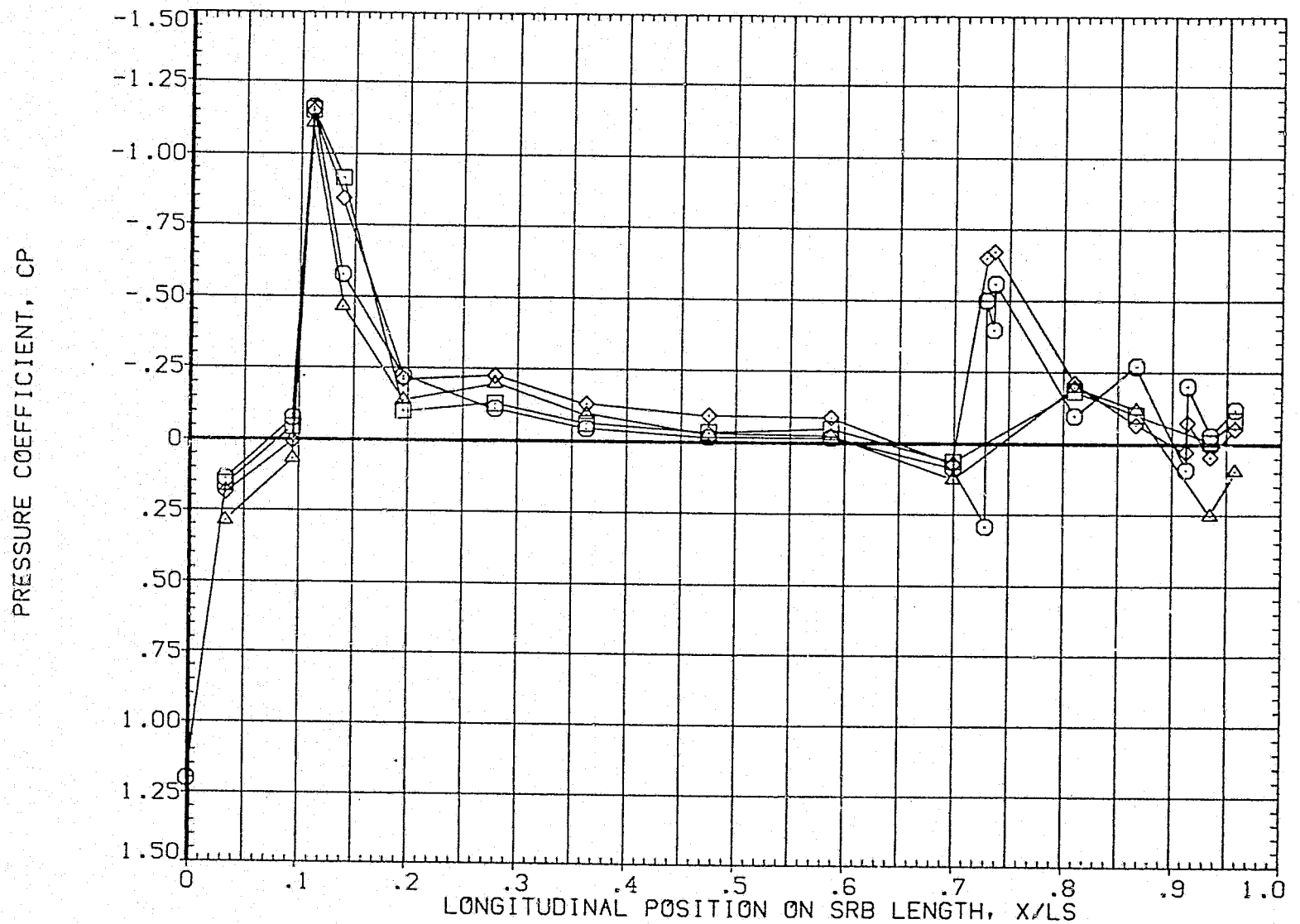


FIG. 63 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER (IETS07)

SYMBOL	PHI	BETAL	ALPHAL
○	180.000	.000	-4.000
□	225.000		
◇	270.000		
△	315.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

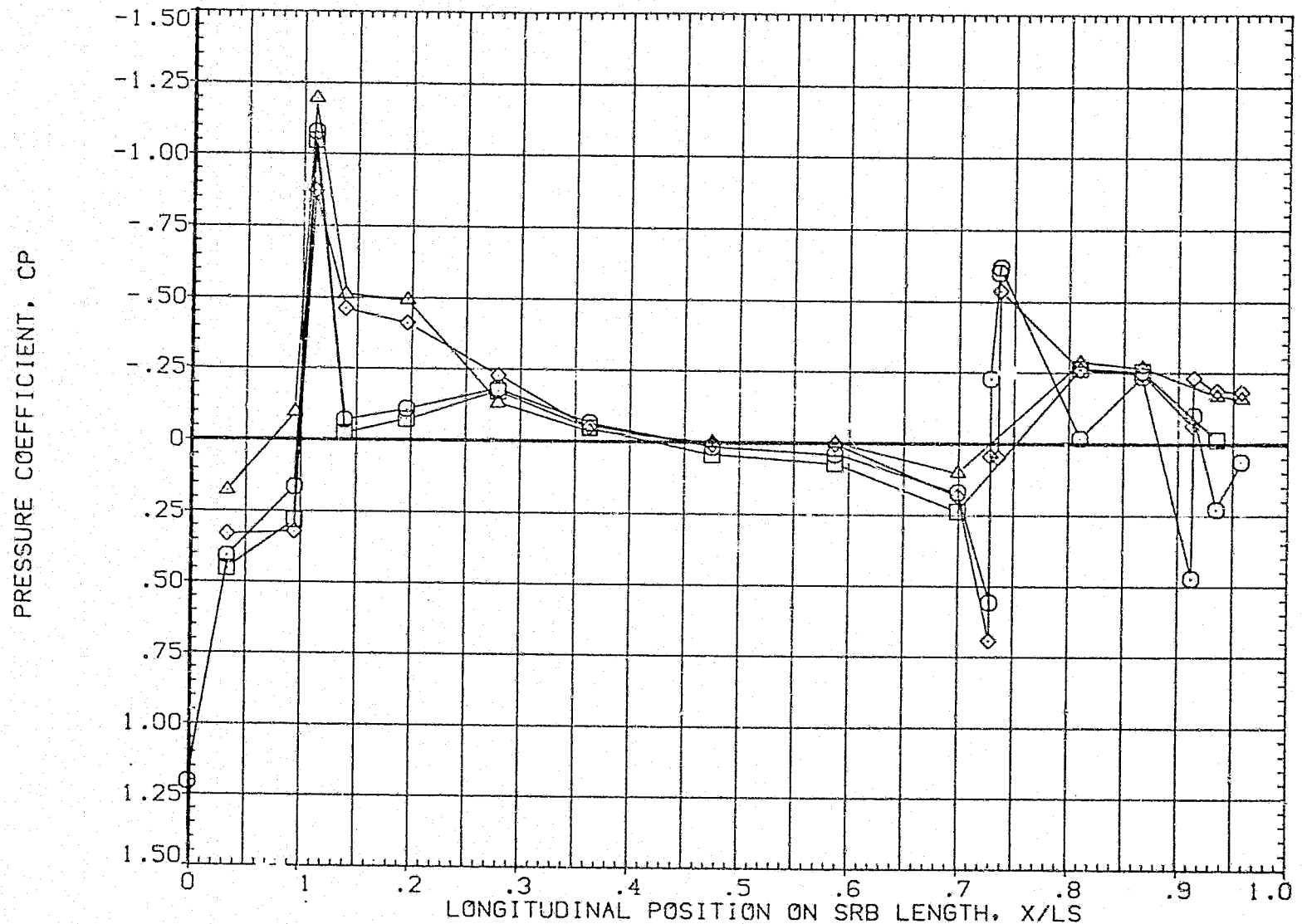


FIG. 63 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

SYMBOL	PHI	BETAL	ALPHAL
○	.000	4.000	-4.000
□	45.000		
◇	90.000		
△	135.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

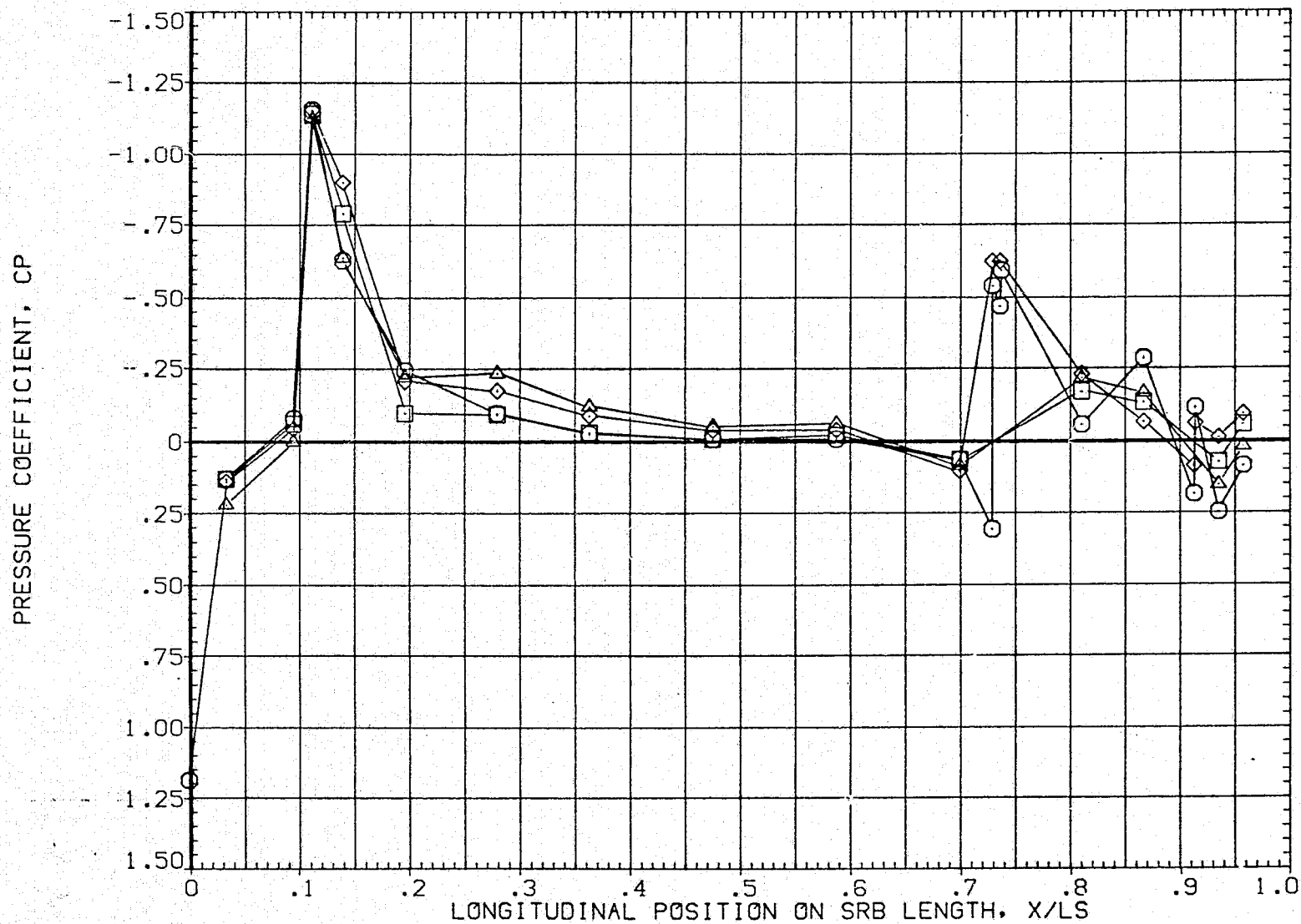


FIG. 63 SRB LONG. PRESSURE DIST. ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 0.9

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER (IETS07)

SYMBOL	PHI	BETAL	ALPHAL
○	180.000	4.000	-4.000
□	225.000		
◇	270.000		
△	315.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

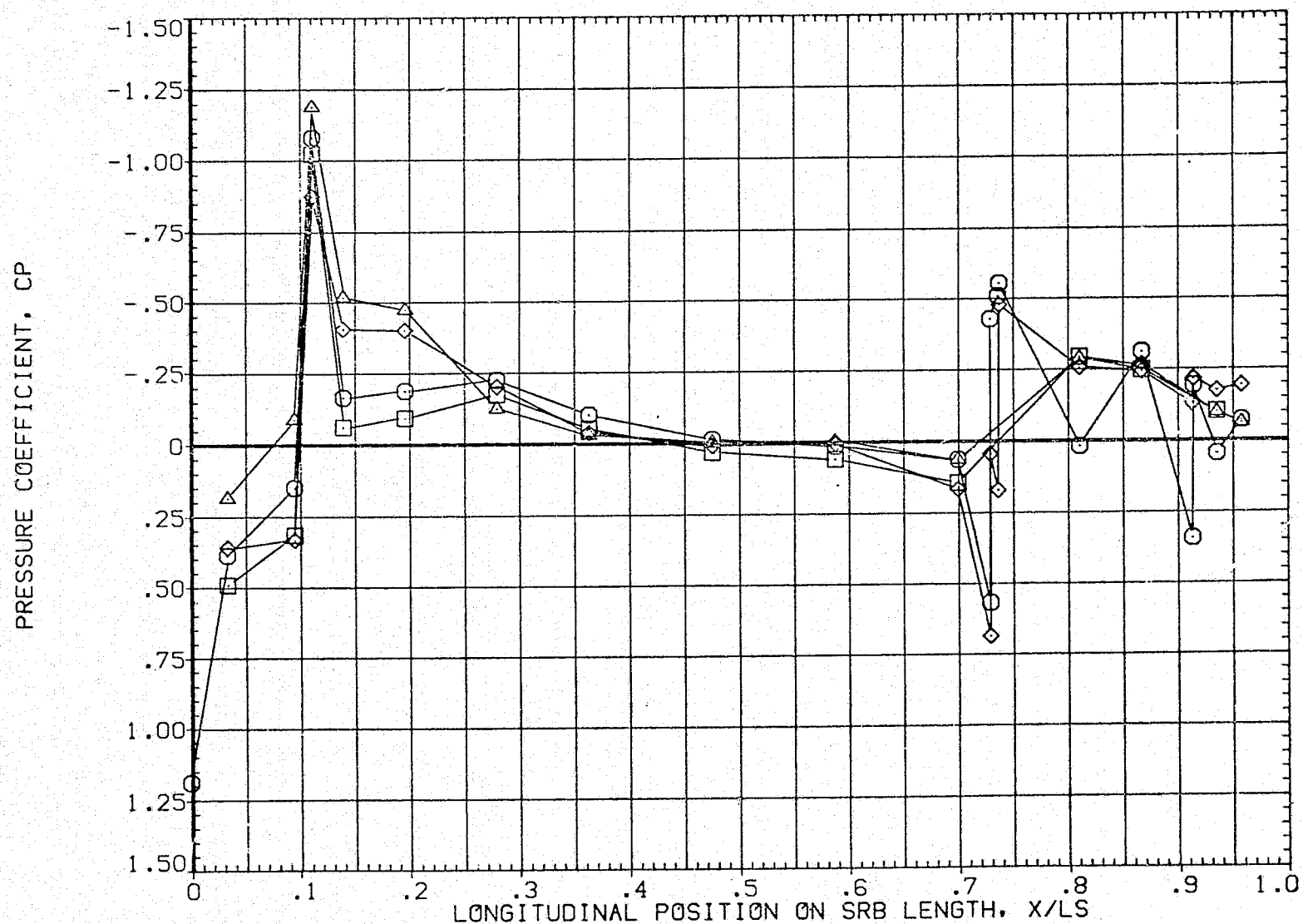


FIG. 63 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

SYMBOL	PHI	BETAL	ALPHAL
○	.000	-4.000	.000
□	45.000		
◇	90.000		
△	135.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

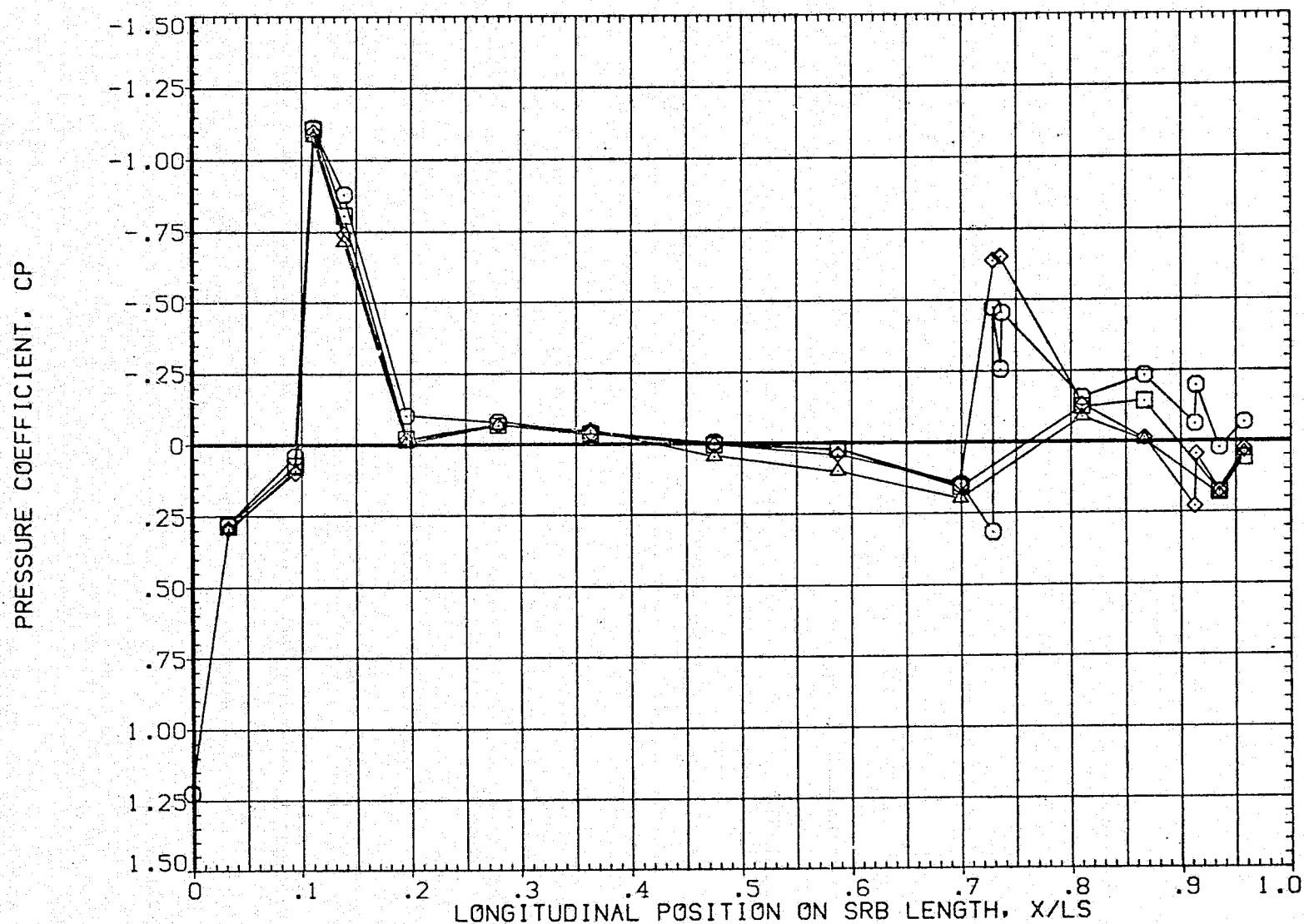


FIG. 63 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER (IETS07)

SYMBOL	PHI	BETAL	ALPHAL
○	180.000	-4.000	.000
□	225.000		
◇	270.000		
△	315.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

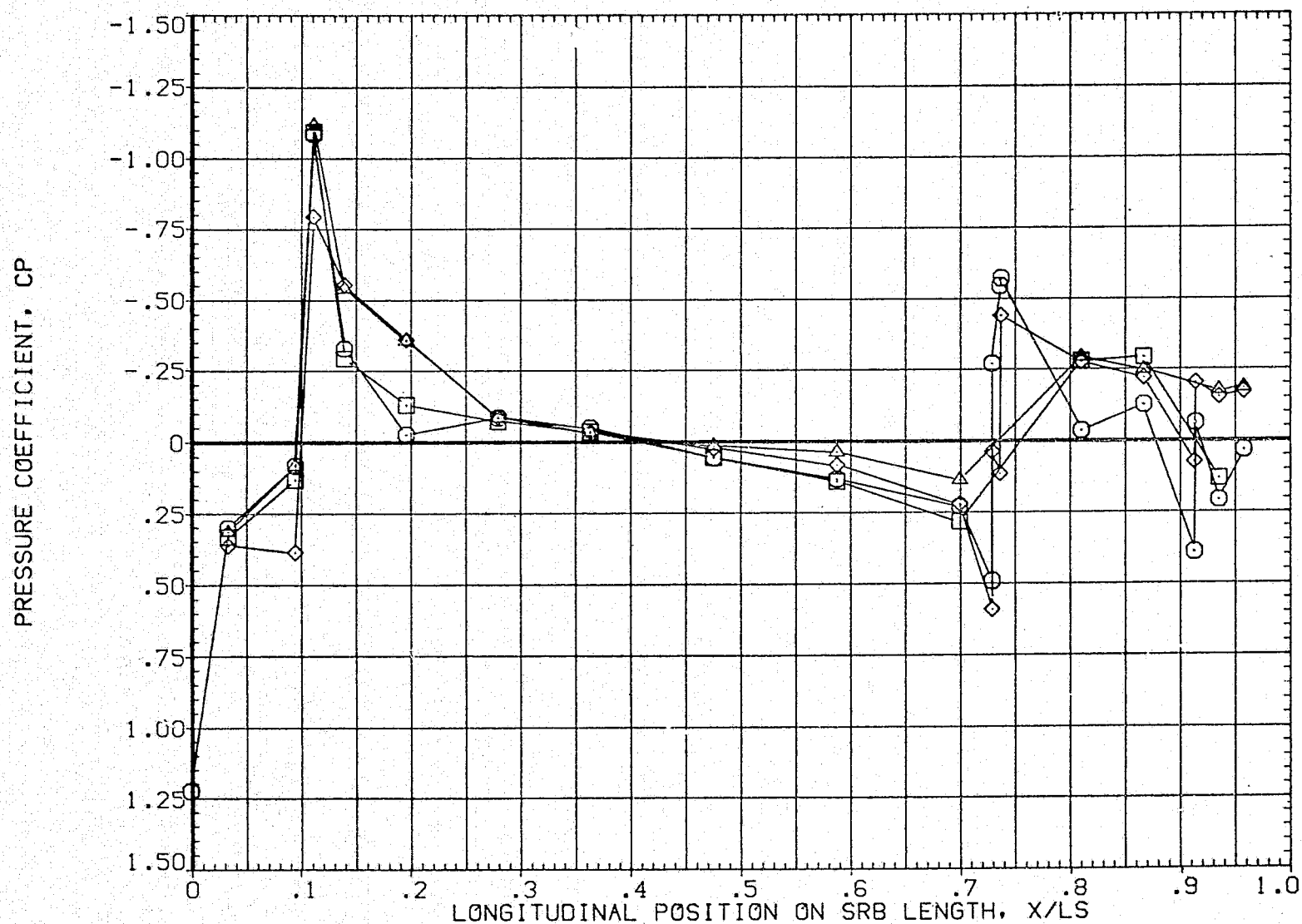


FIG. 63 SRB LONG. PRESSURE DIST. ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 0.9

SYMBOL	PHI	BETAL	ALPHAL
○	.000	.000	.000
□	45.000		
◇	90.000		
△	135.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

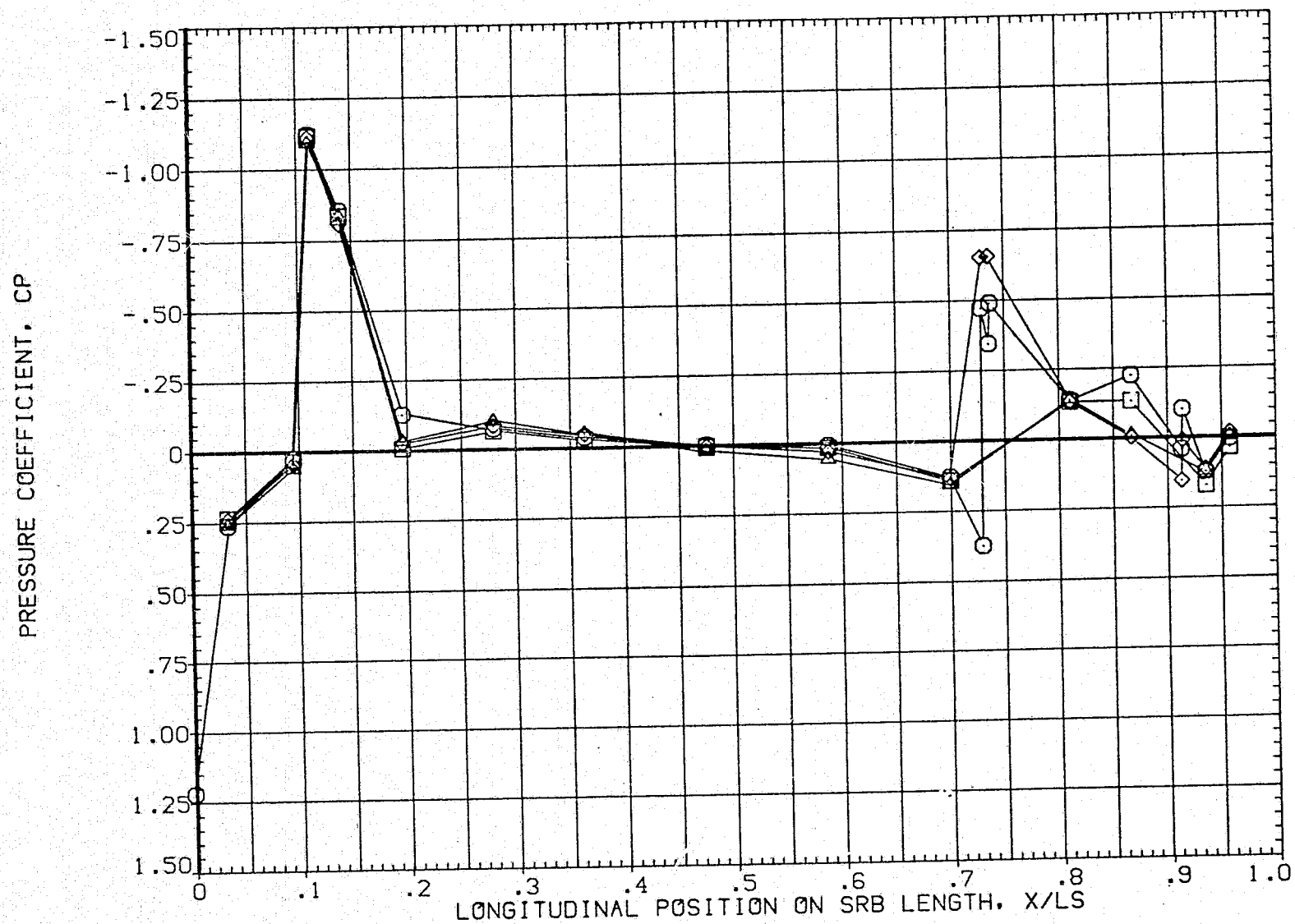


FIG. 63 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER (IETS07)

SYMBOL	PHI	BETAL	ALPHAL
○	180.000	.000	.000
□	225.000		
◇	270.000		
△	315.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

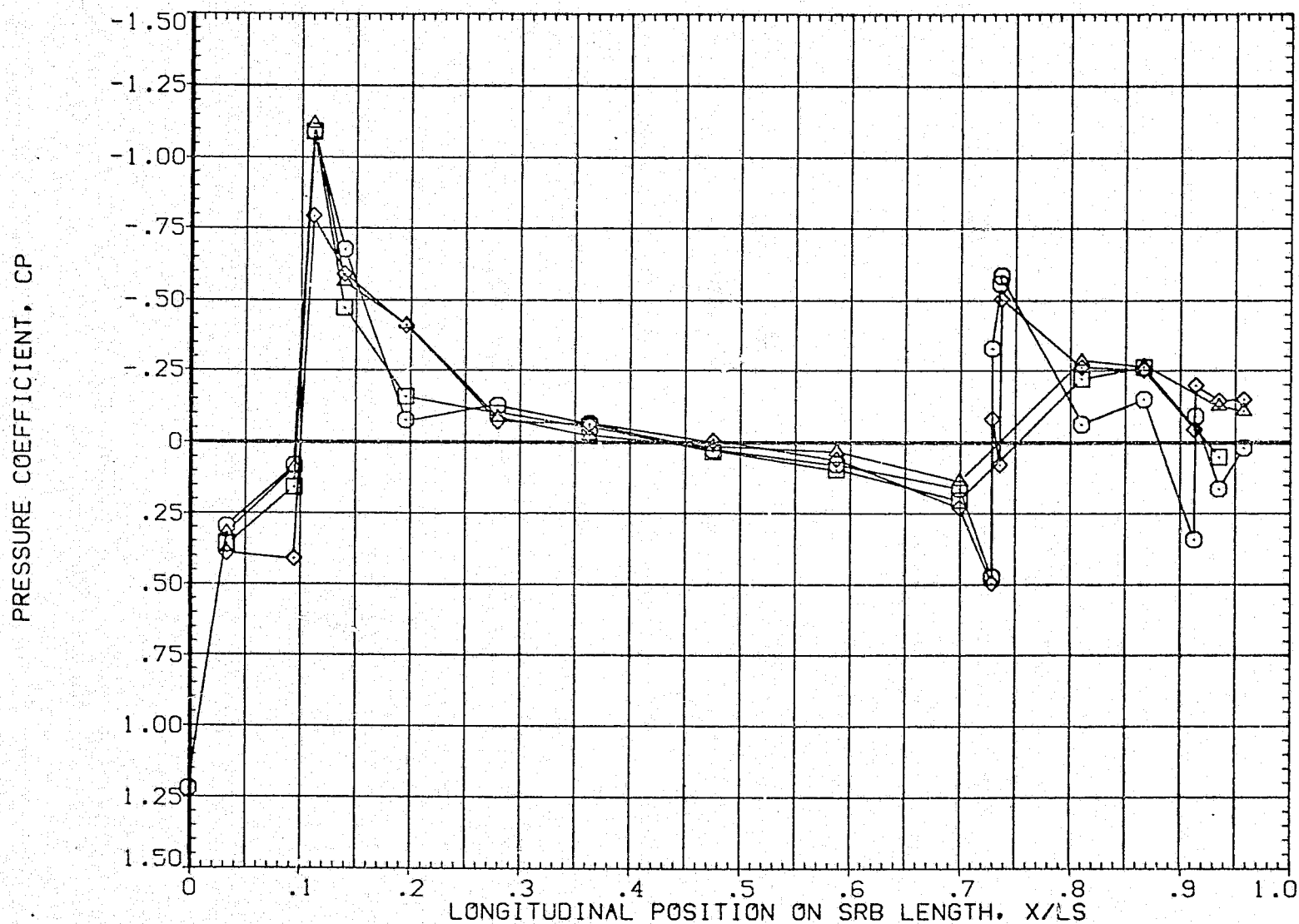


FIG. 63 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

SYMBOL	PHI	BETAL	ALPHAL
○	.000	4.000	.000
□	45.000		
◇	90.000		
△	135.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

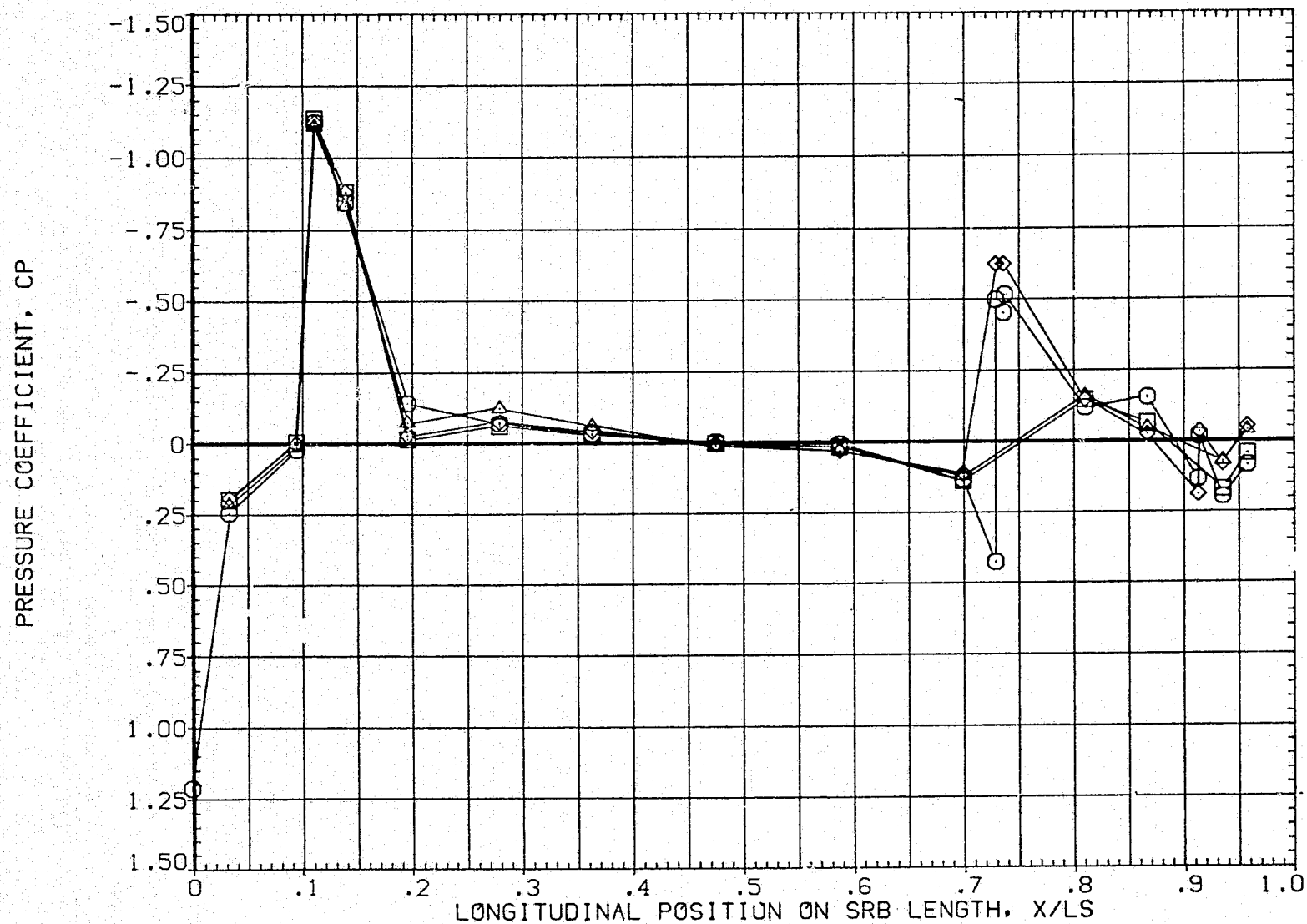


FIG. 63 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER (IETS07)

SYMBOL	PHI	BETAL	ALPHAL
○	180.000	4.000	.000
□	225.000		
◇	270.000		
△	315.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

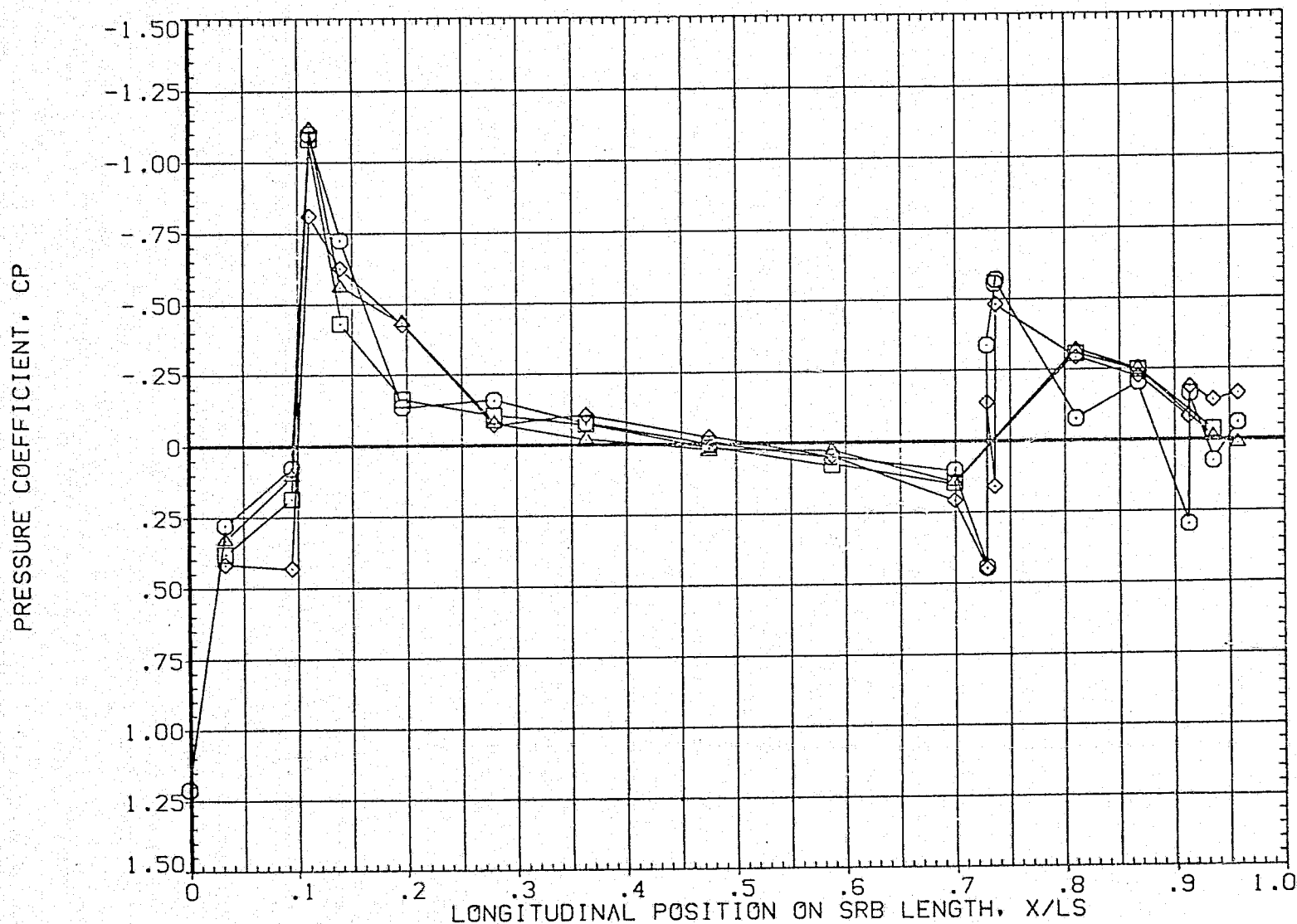


FIG. 63 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

SYMBOL	PHI	BETAL	ALPHAL
○	.000	-4.000	4.000
□	45.000		
◇	90.000		
△	135.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

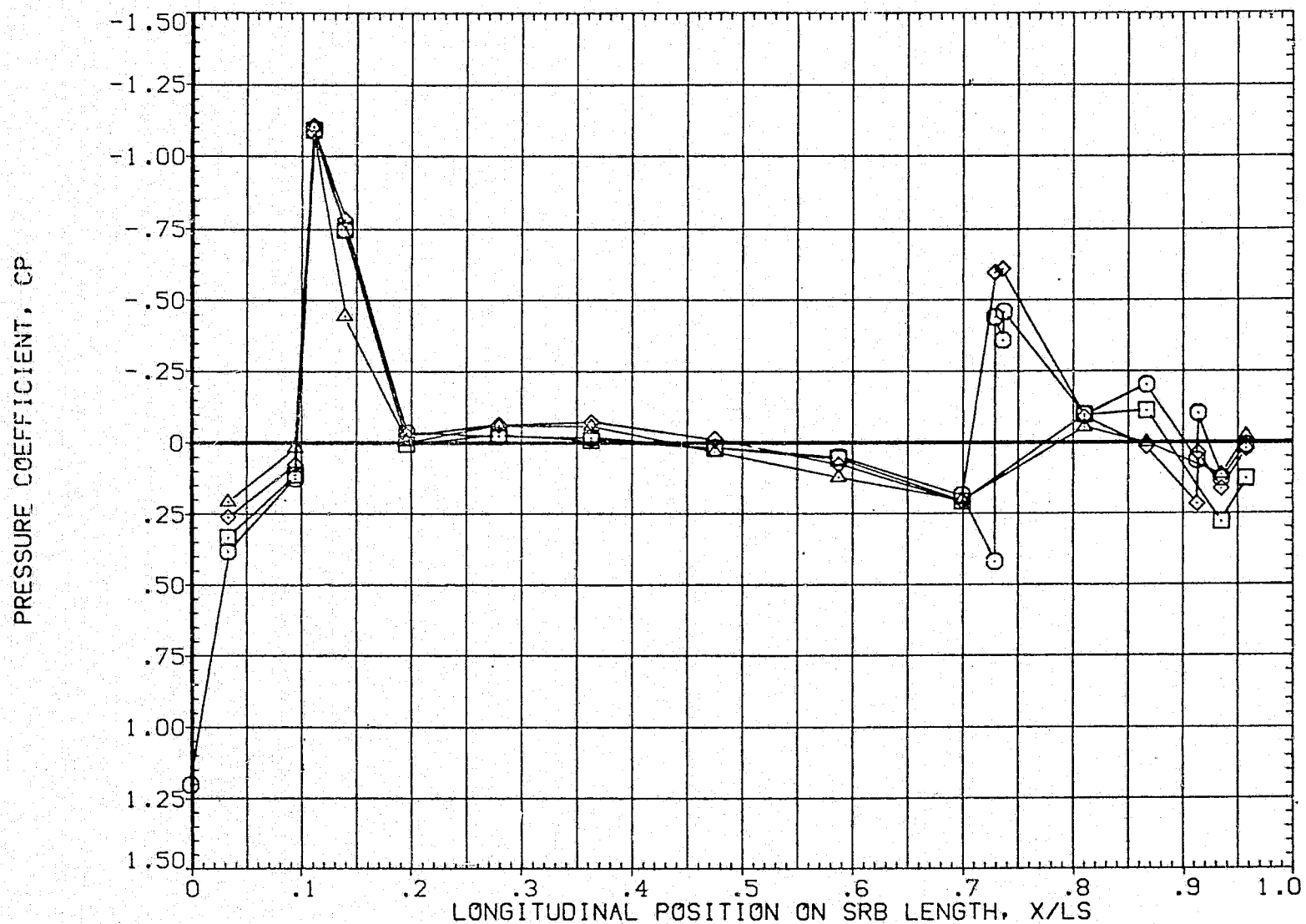


FIG. 63 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER (IETS07)

SYMBOL	PHI	BETAL	ALPHAL
○	180.000	-4.000	4.000
□	225.000		
◇	270.000		
△	315.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

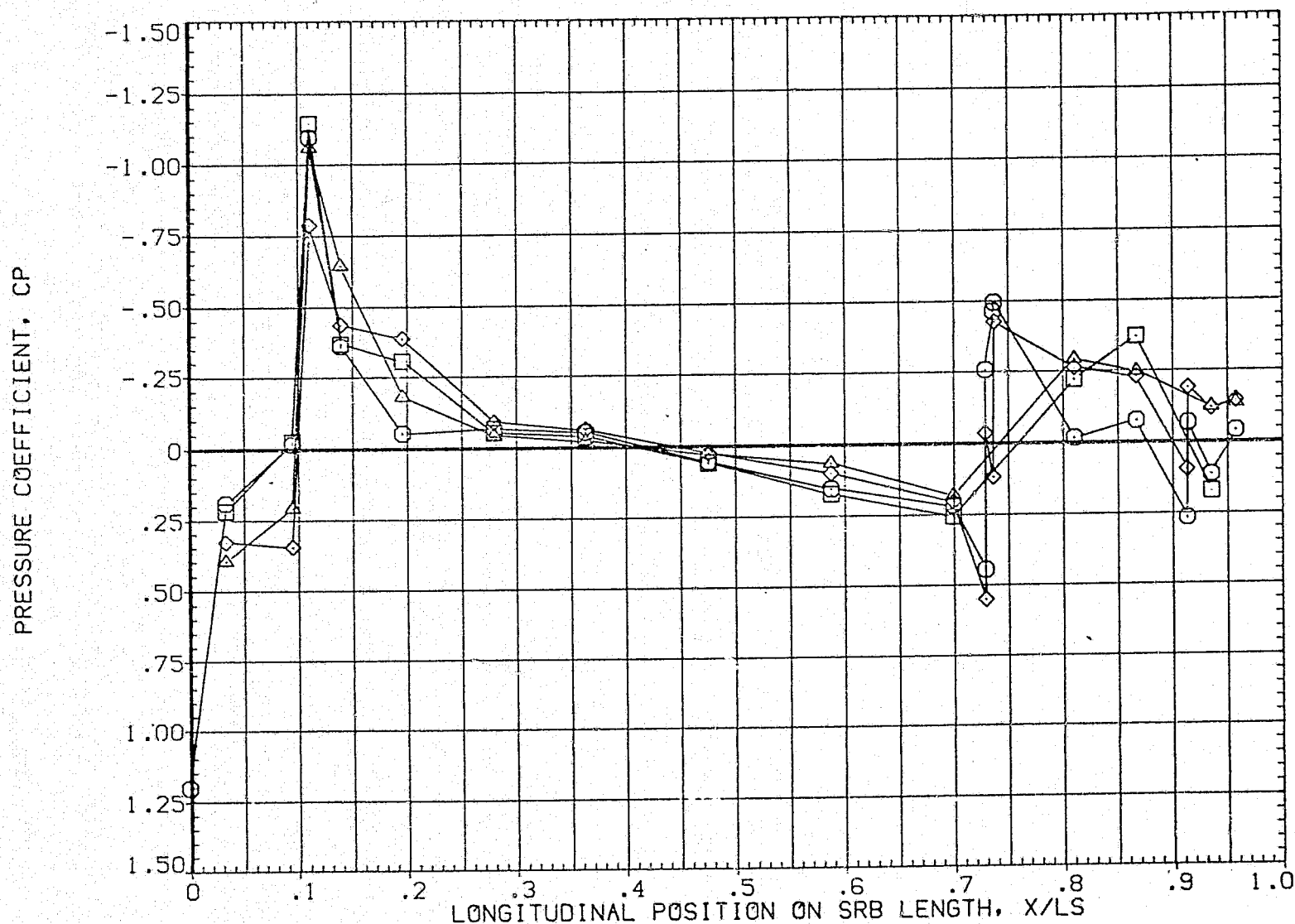


FIG. 63 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

SYMBOL	PHI	BETAL	ALPHAL
○	.000	.000	4.000
□	45.000		
◇	90.000		
△	135.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

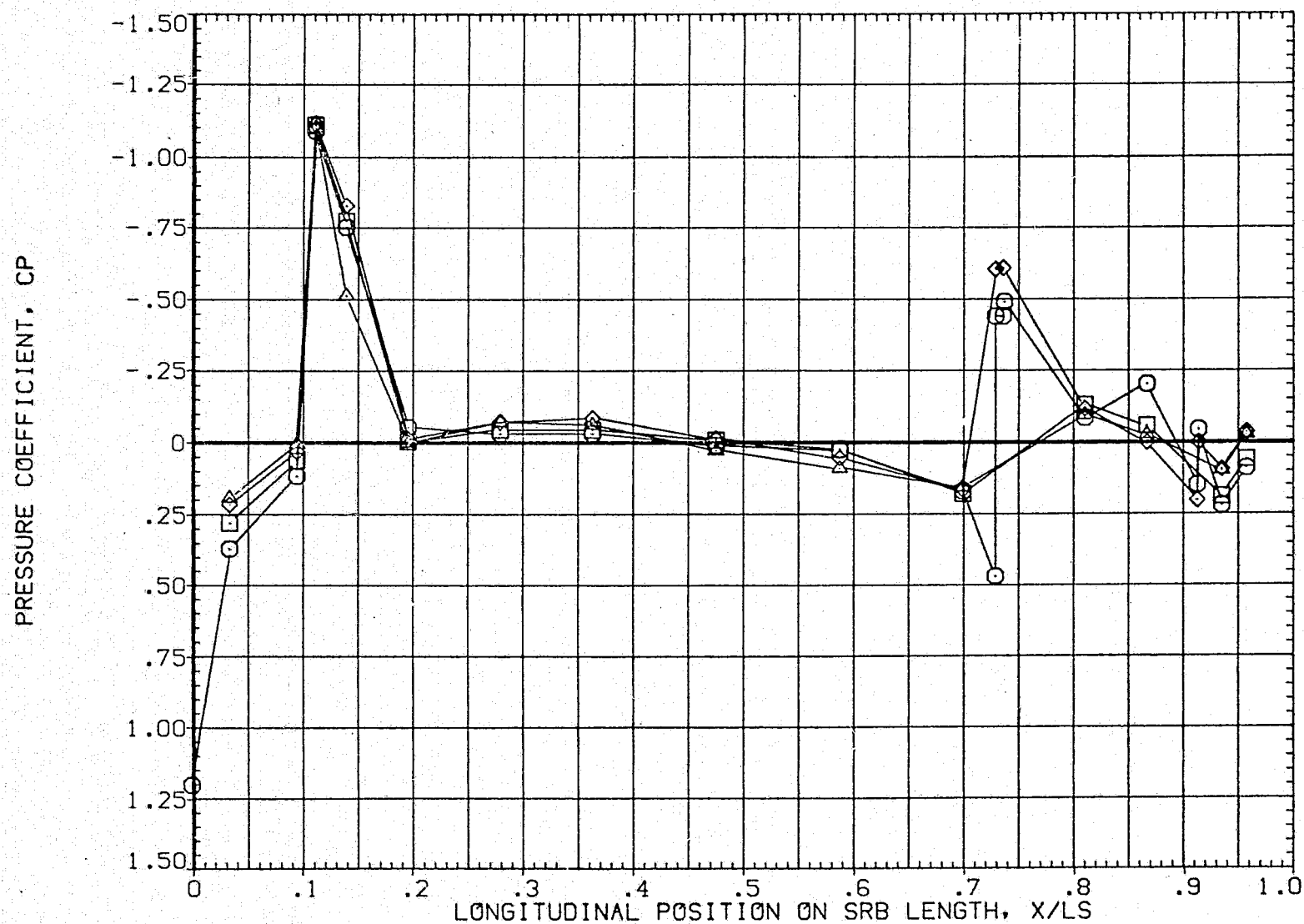


FIG. 63 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER (IETS07)

SYMBOL	PHI	BETAL	ALPHAL
○	180.000	.000	4.000
□	225.000		
◇	270.000		
△	315.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

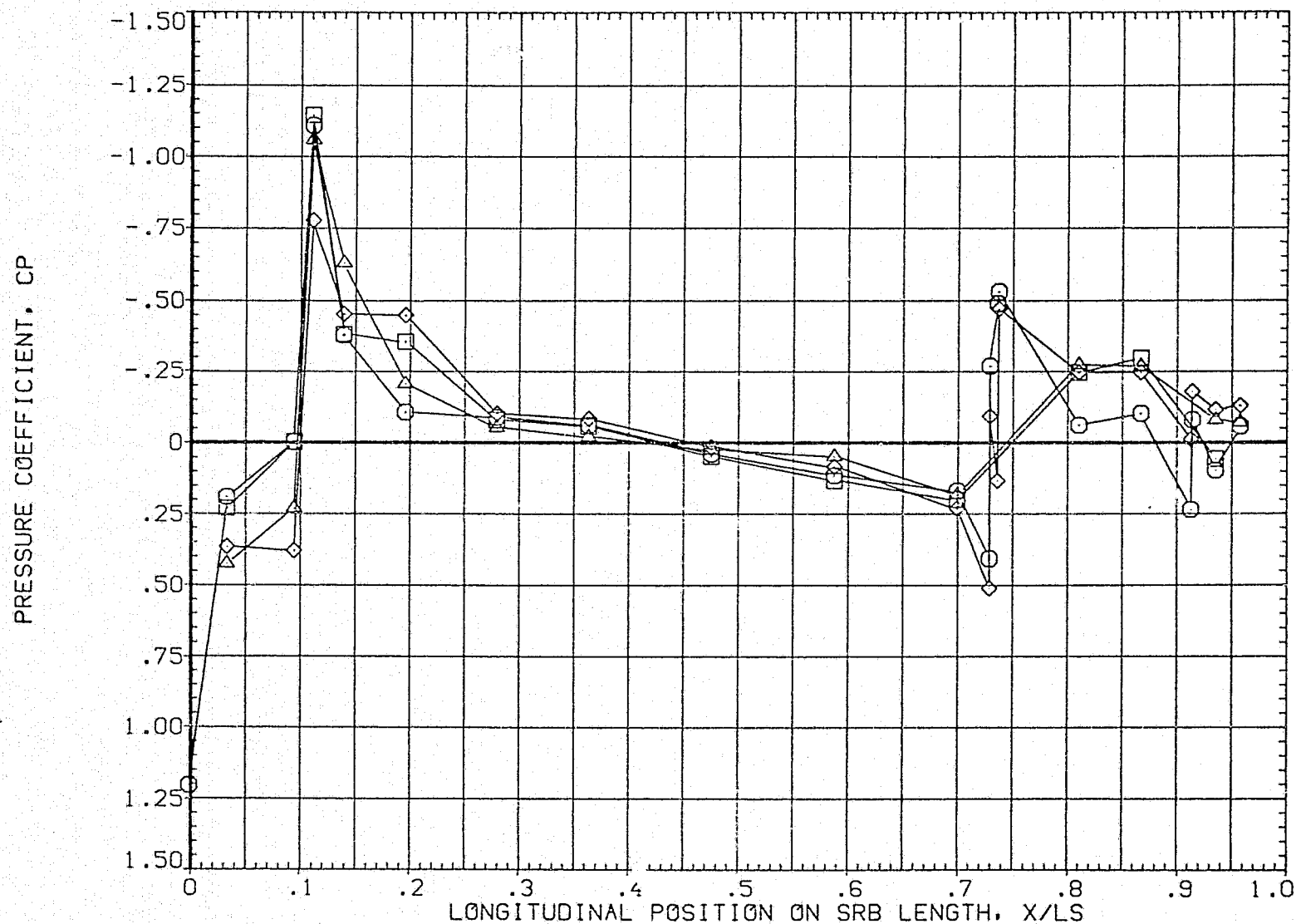


FIG. 63 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

SYMBOL	PHI	BETAL	ALPHAL
○	.000	4.000	4.000
□	45.000		
◇	90.000		
△	135.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

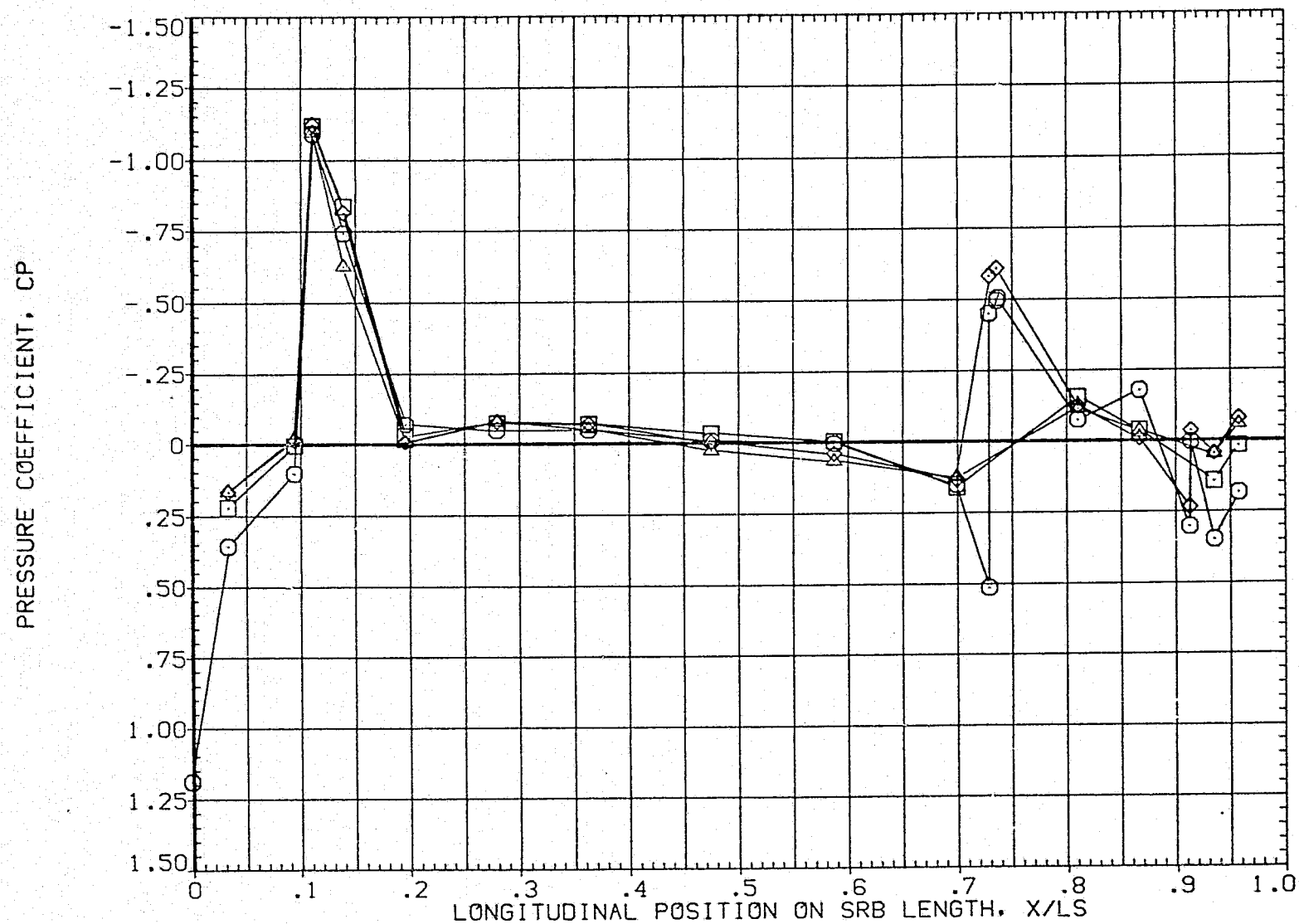


FIG. 63 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

ARC11-019 IA81 LVAP(ELHL UNSEALED) SRM BOOSTER (IETS07)

SYMBOL	PHI	BETAL	ALPHAL
○	180.000	4.000	4.000
□	225.000		
◇	270.000		
△	315.000		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

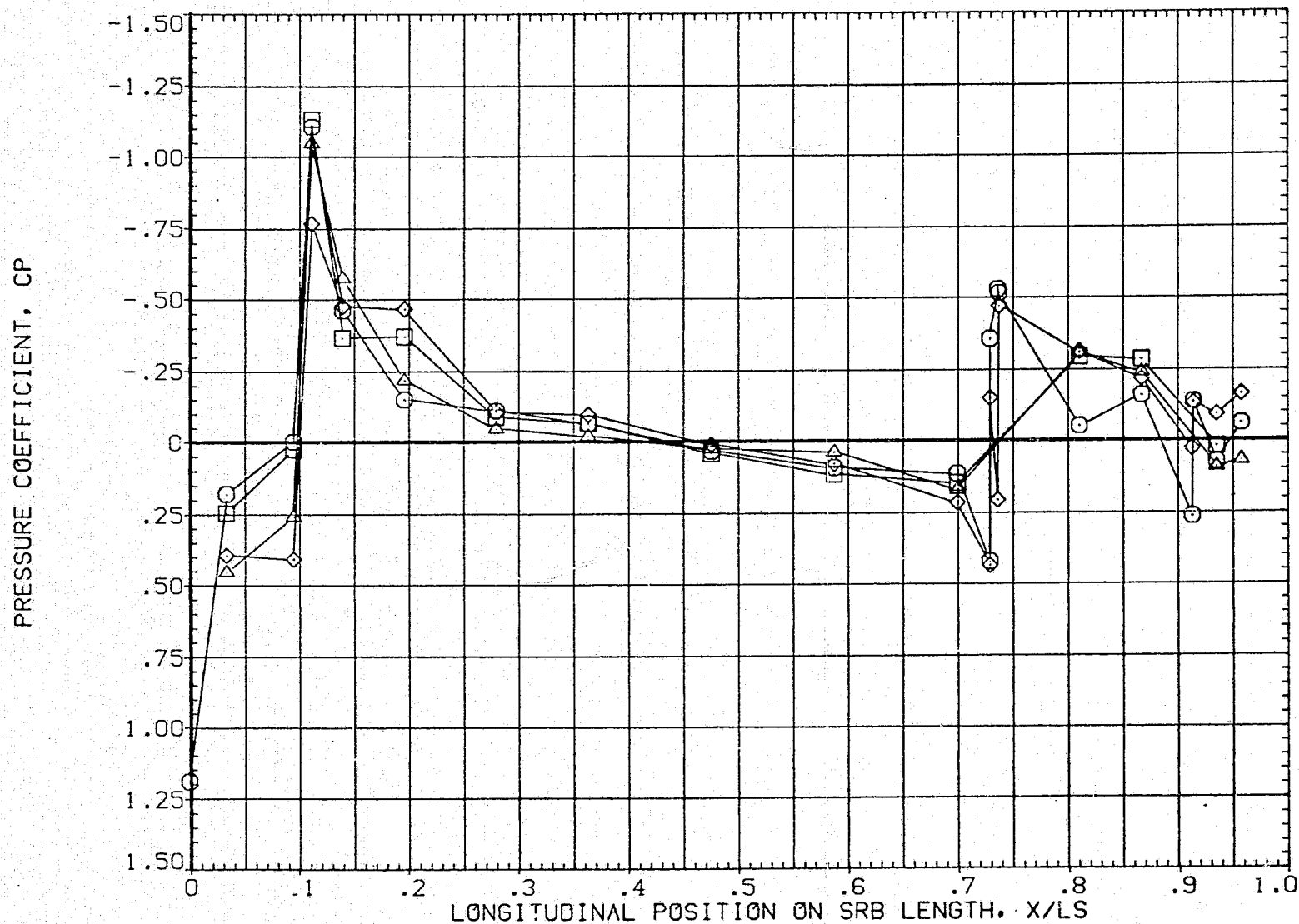


FIG. 63 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

SYMBOL	PHI	BETAL	ALPHAL
○	.000	-4.000	-4.000
□	45.000		
◇	90.000		
△	135.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

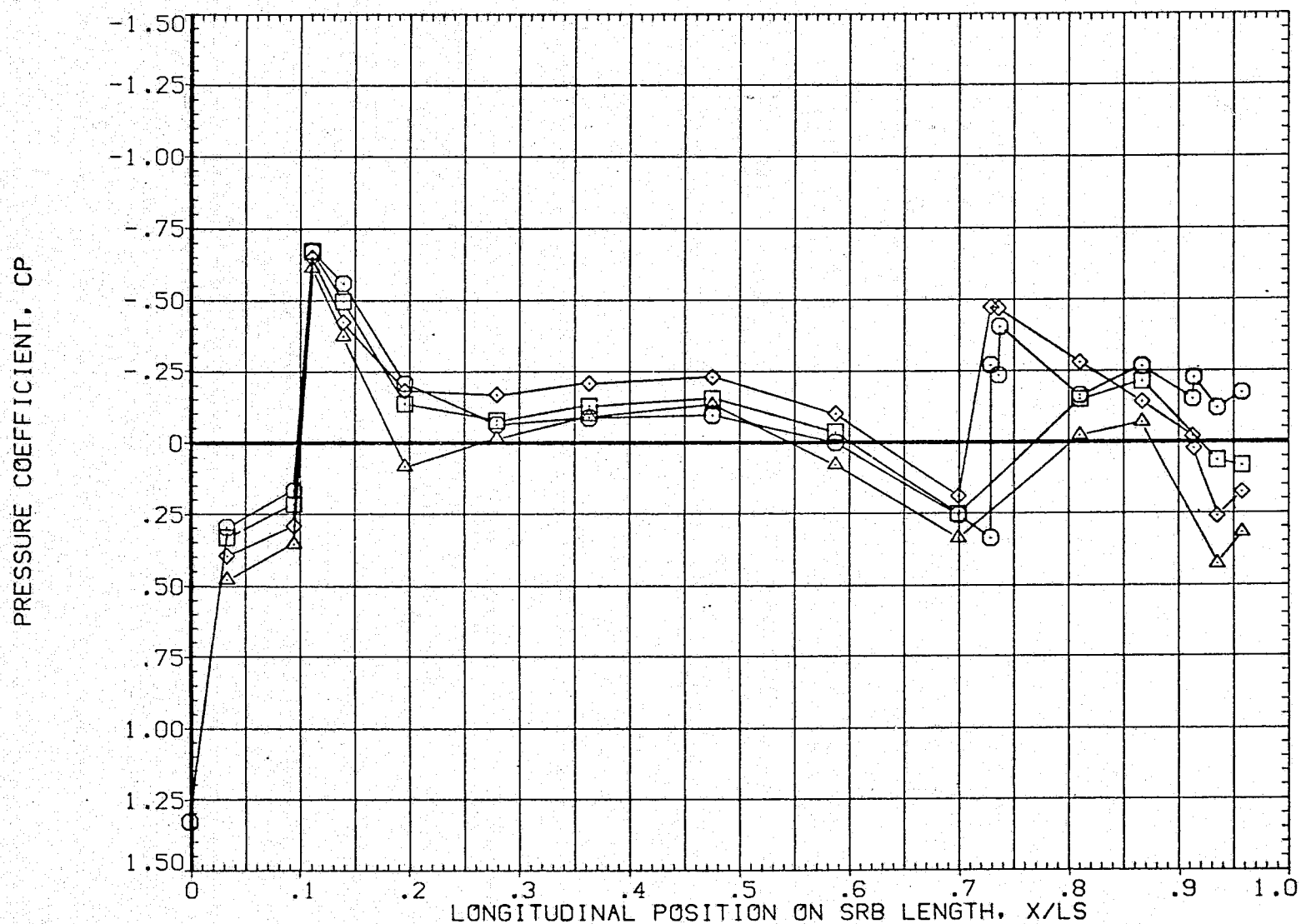


FIG. 64 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

ARC11-019 IA81 LVAP(ELHL UNSEALD), SRM BOOSTER (IETS09)

SYMBOL	PHI	BETAL	ALPHAL
○	180.000	-4.000	-4.000
□	225.000		
◇	270.000		
△	315.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

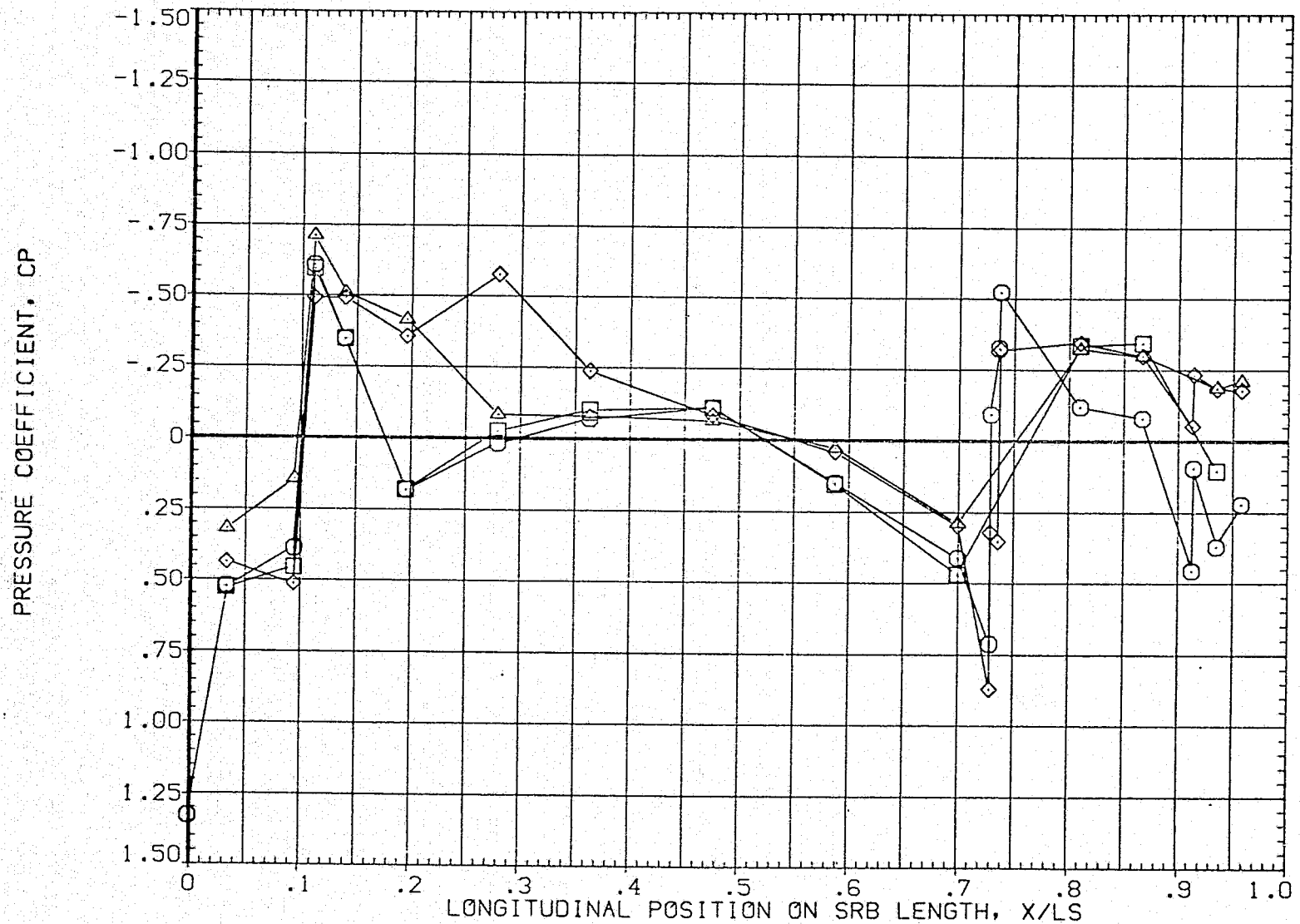


FIG. 64 SRB LONG. PRESSURE DIST. ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 1.1

SYMBOL	PHI	BETAL	ALPHAL
○	.000	.000	-4.000
□	45.000		
◇	90.000		
△	135.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

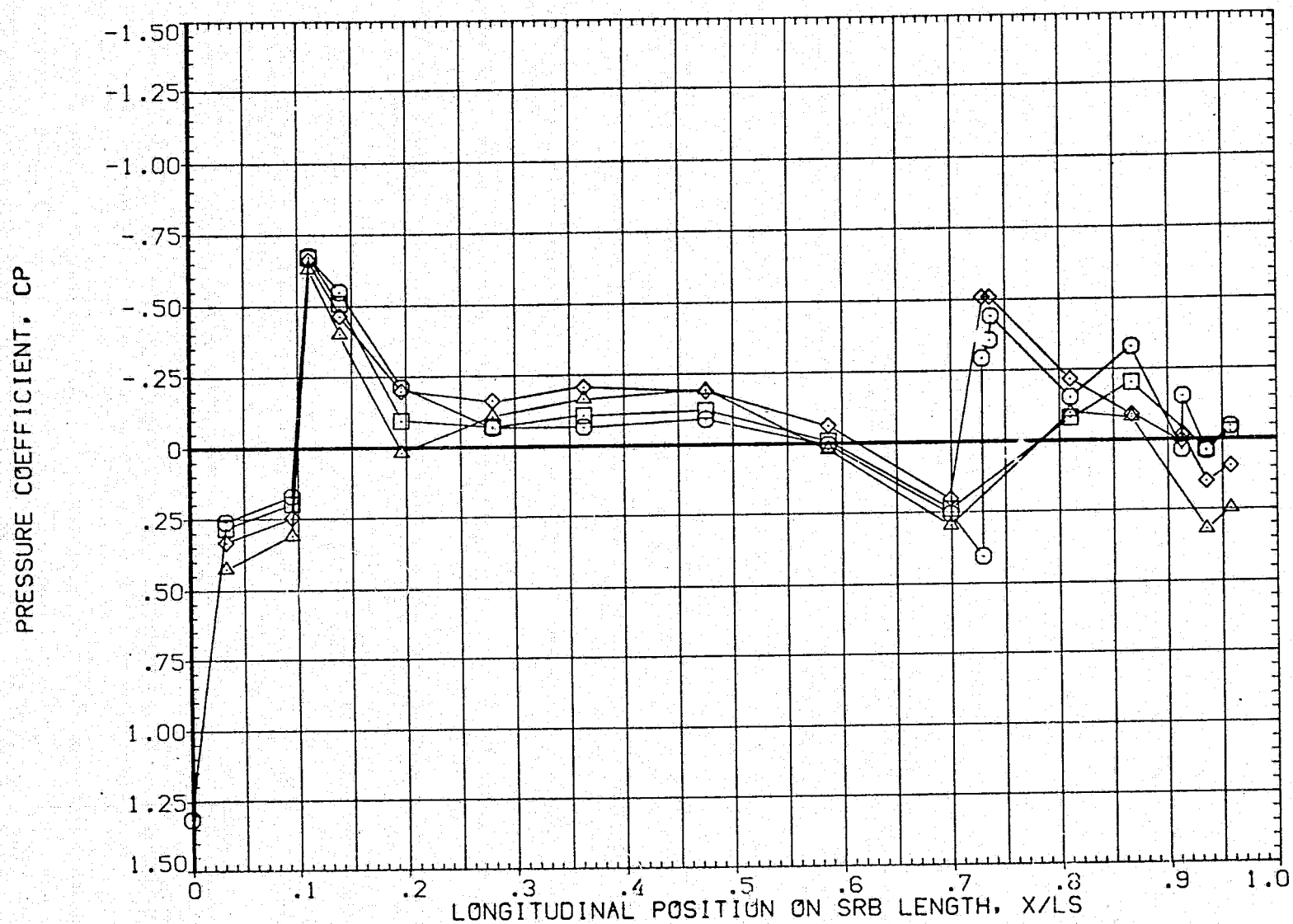


FIG. 64 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

ARC11-019 1A81 LVAP(ELHL UNSEALD) SRM BOOSTER (IETS09)

SYMBOL	PHI	BETAL	ALPHAL
○	180.000	.000	-4.000
□	225.000		
◇	270.000		
△	315.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

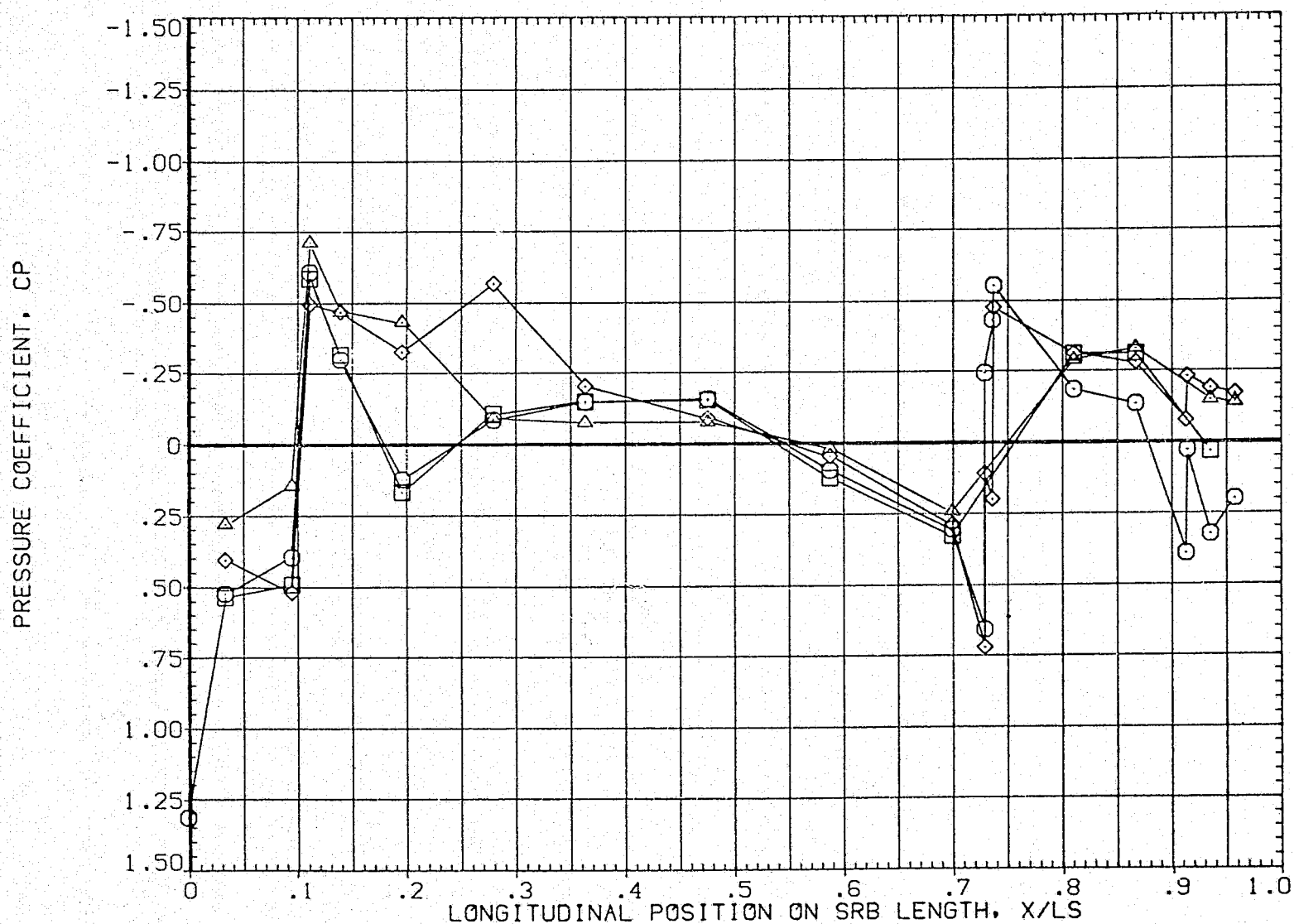


FIG. 64 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

SYMBOL	PHI	BETAL	ALPHAL
○	.000	4.000	-4.000
□	45.000		
◇	90.000		
△	135.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

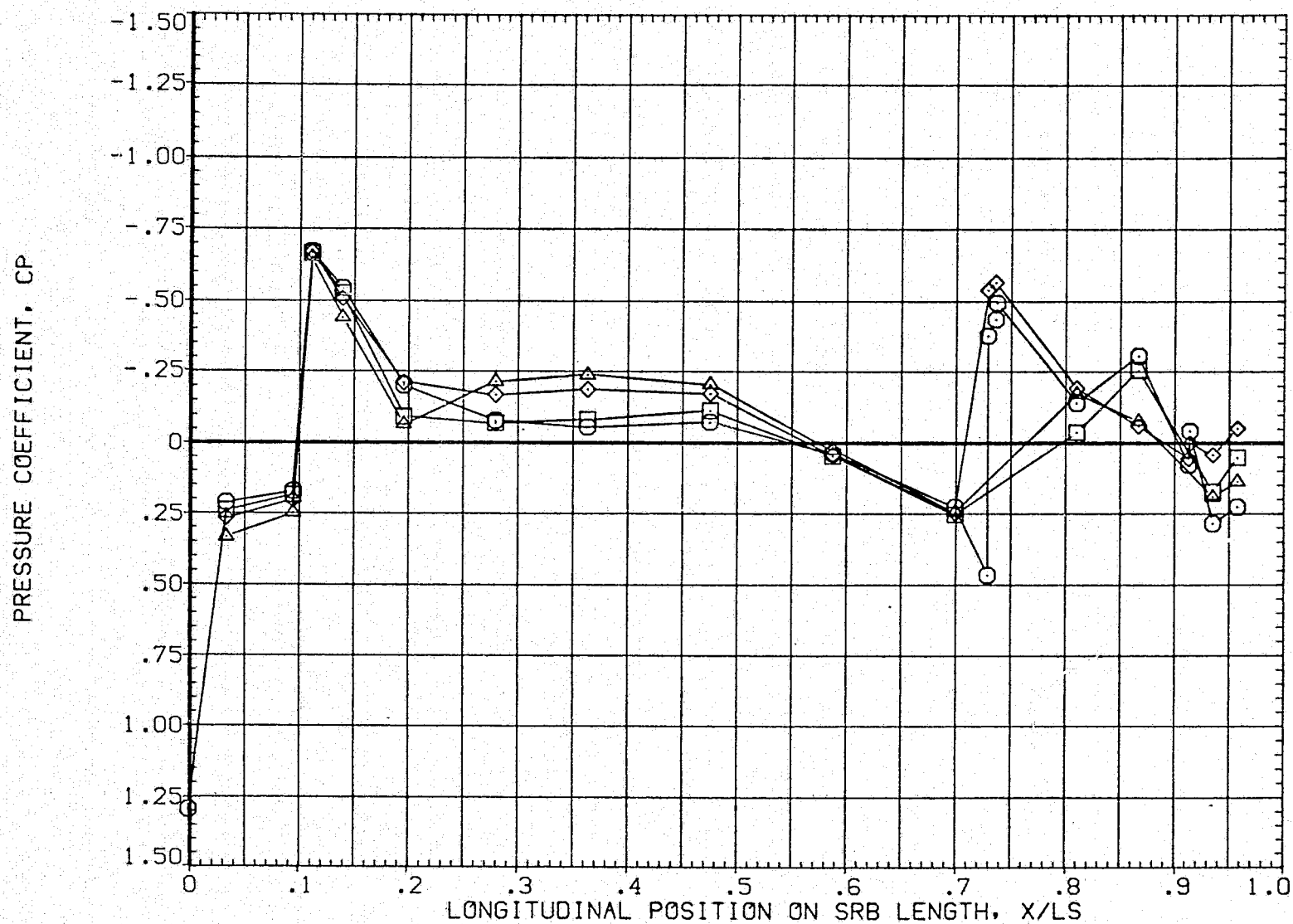


FIG. 64 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER (IETS09)

SYMBOL	PHI	BETAL	ALPHAL
○	180.000	4.000	-4.000
□	225.000		
◇	270.000		
△	315.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

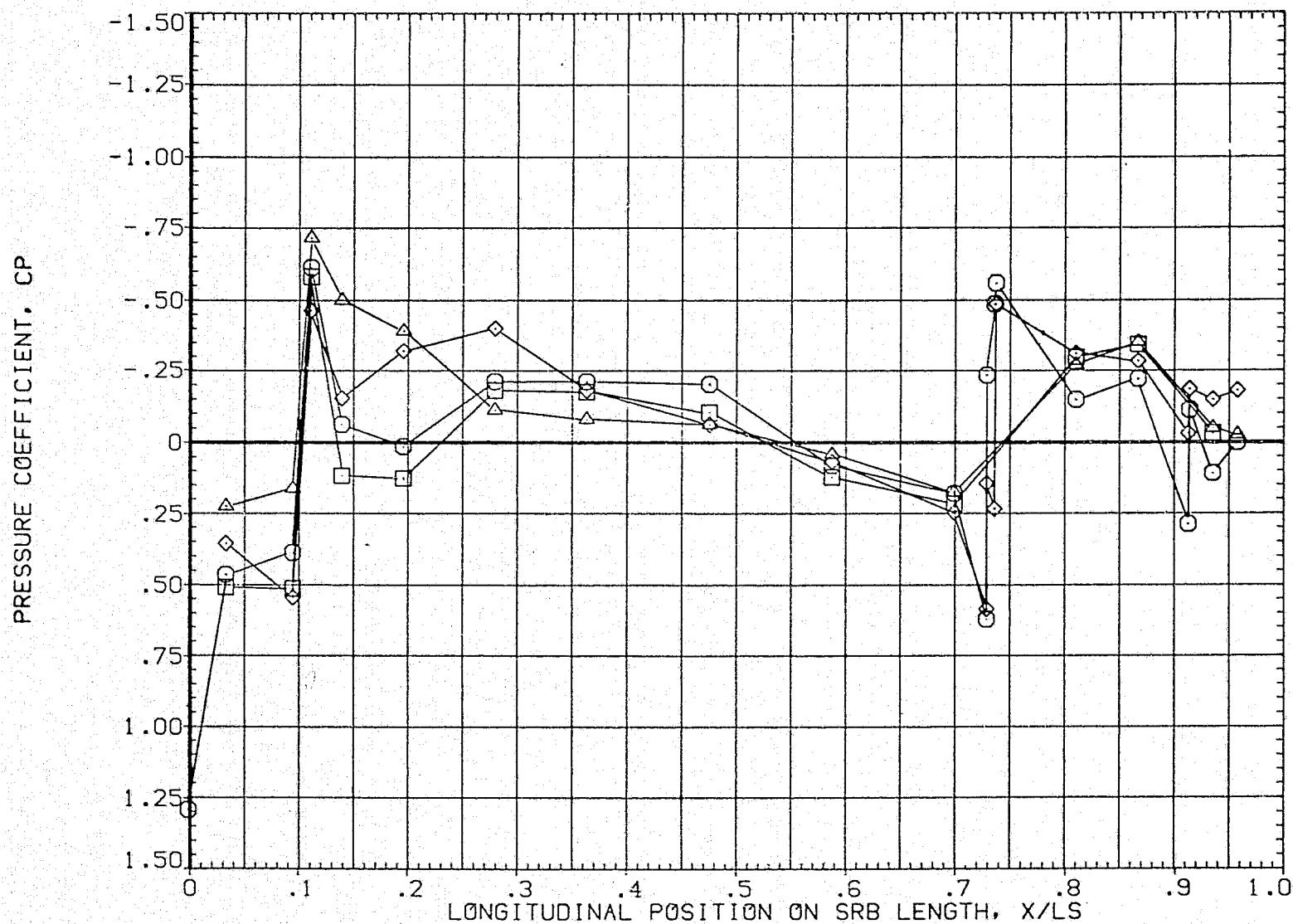


FIG. 64 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

SYMBOL	PHI	BETAL	ALPHAL
○	.000	-4.000	.000
□	45.000		
◇	90.000		
△	135.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

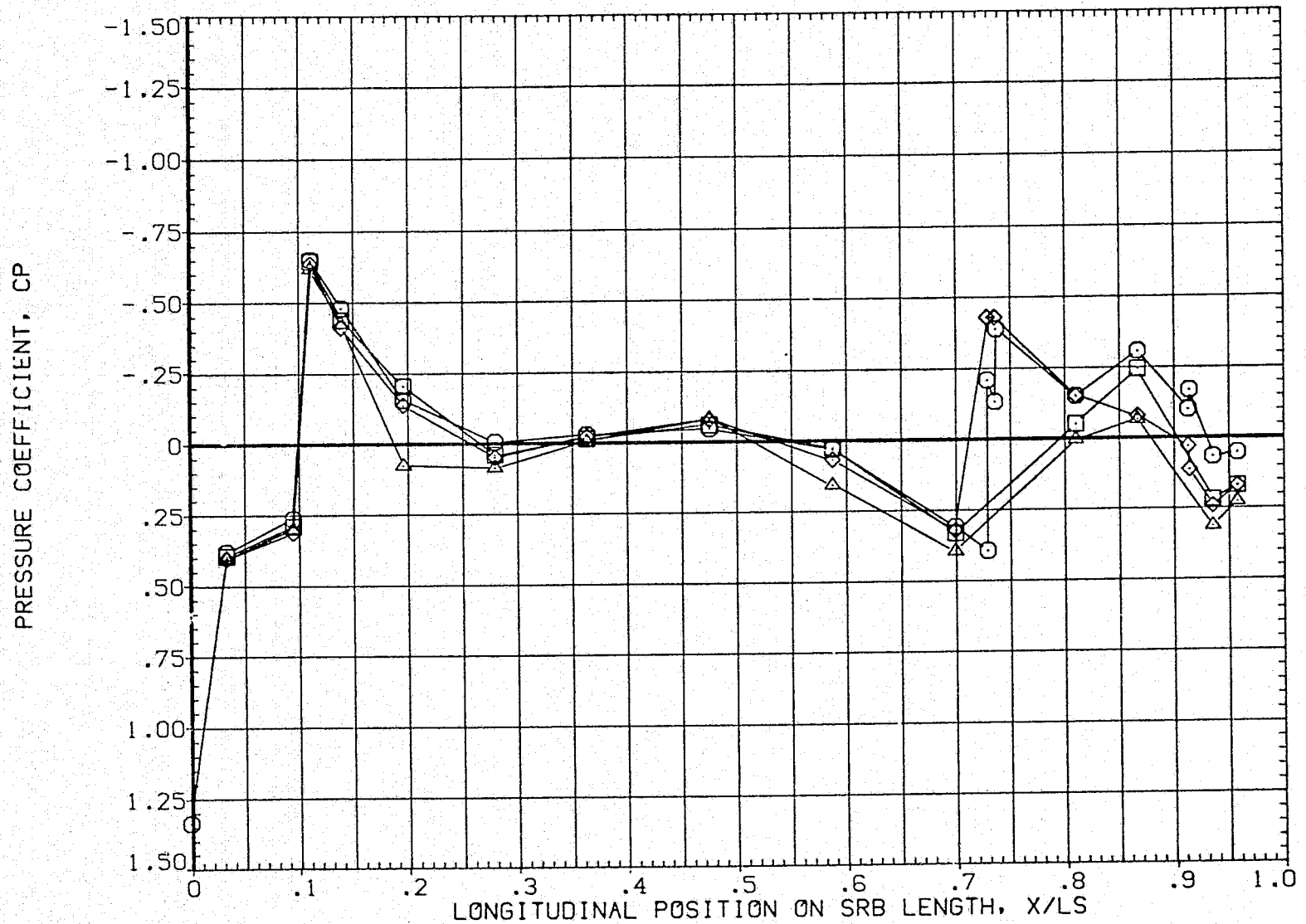


FIG. 64 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER (IETS09)

SYMBOL	PHI	BETAL	ALPHAL
○	180.000	-4.000	.000
□	225.000		
◇	270.000		
△	315.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

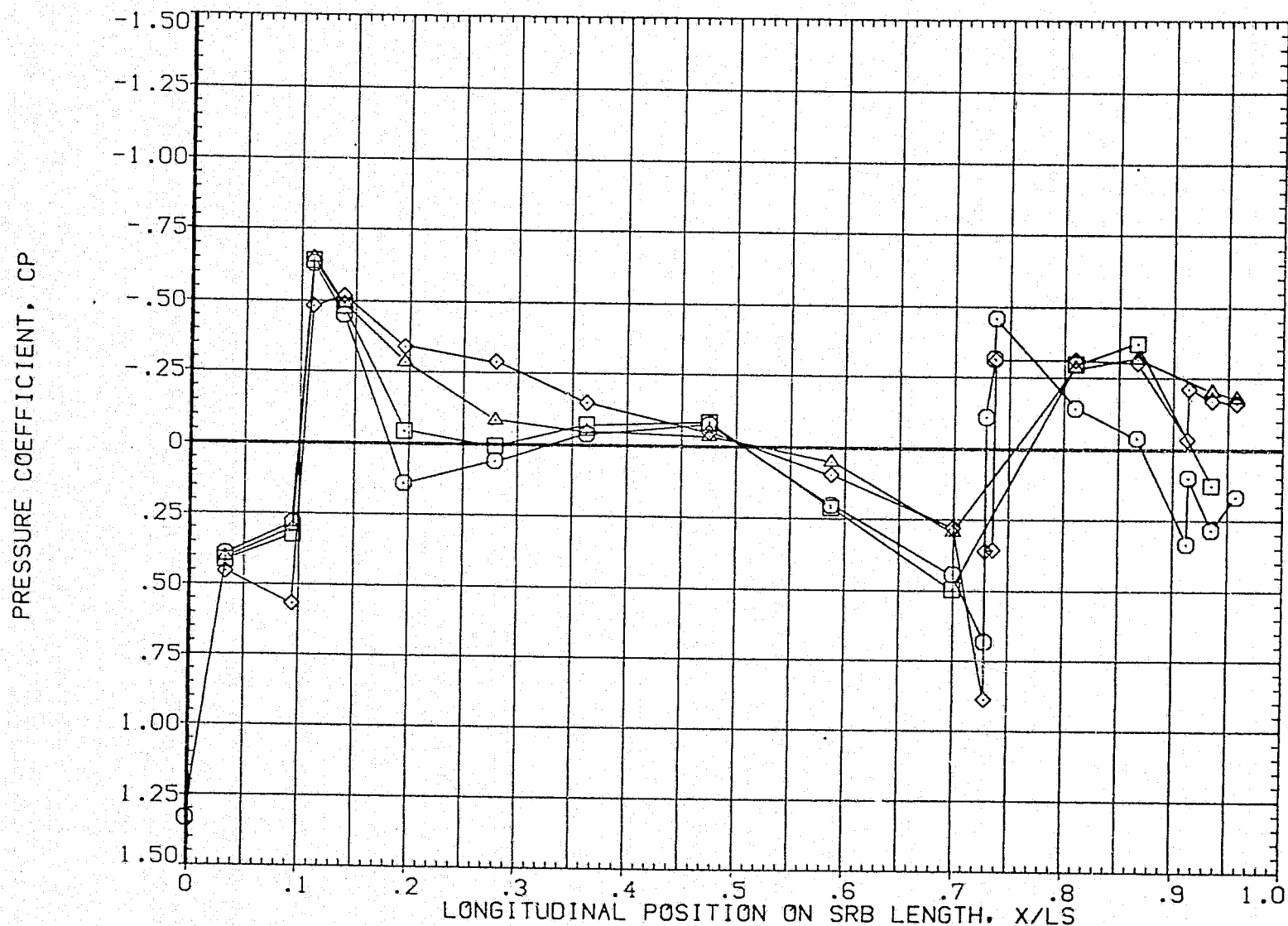


FIG. 64 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

SYMBOL	PHI	BETAL	ALPHAL
○	.000	.000	.000
□	45.000		
◇	90.000		
△	135.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

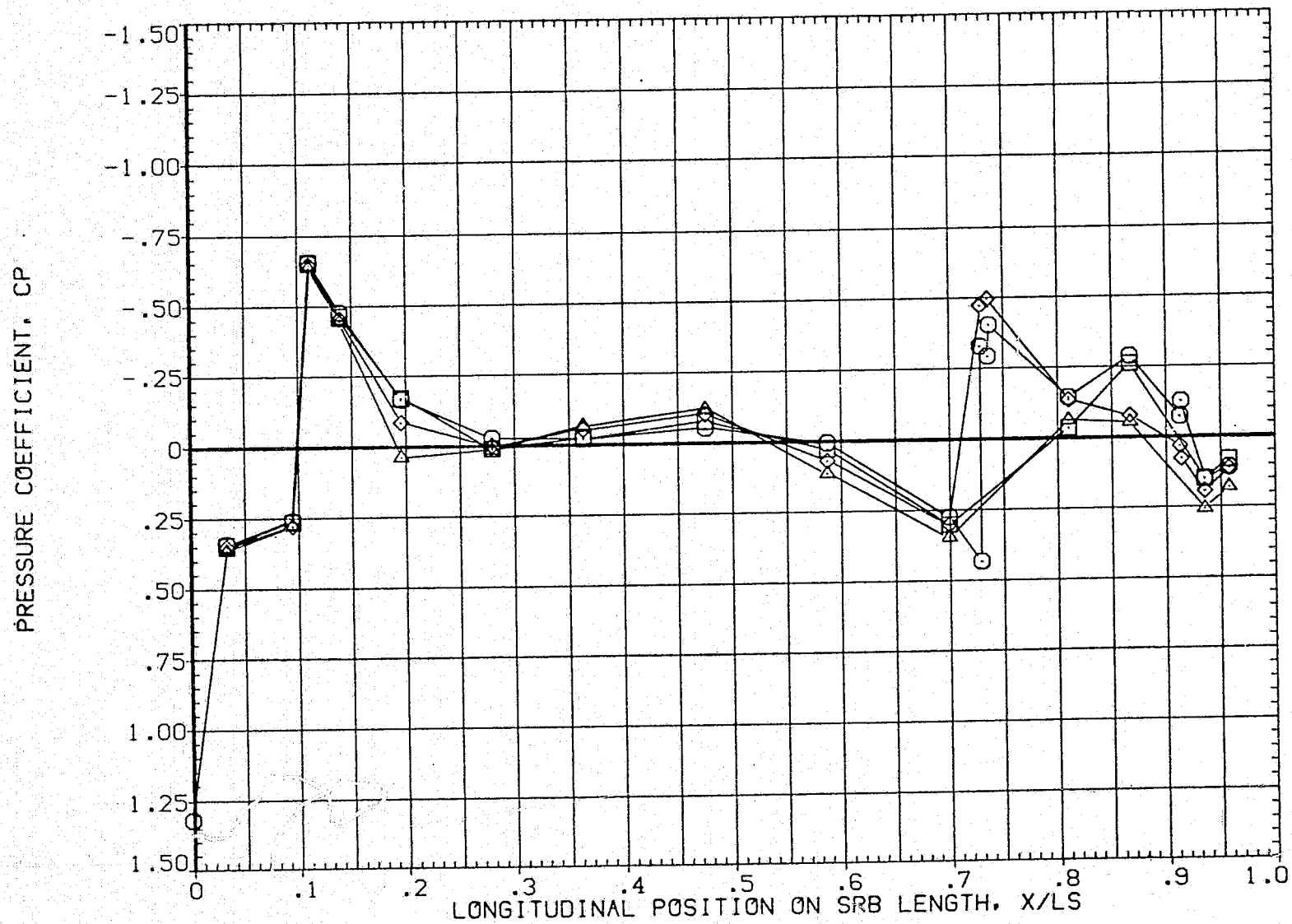


FIG. 64 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER (IETS09)

SYMBOL	PHI	BETAL	ALPHAL
○	180.000	.000	.000
□	225.000		
◇	270.000		
△	315.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

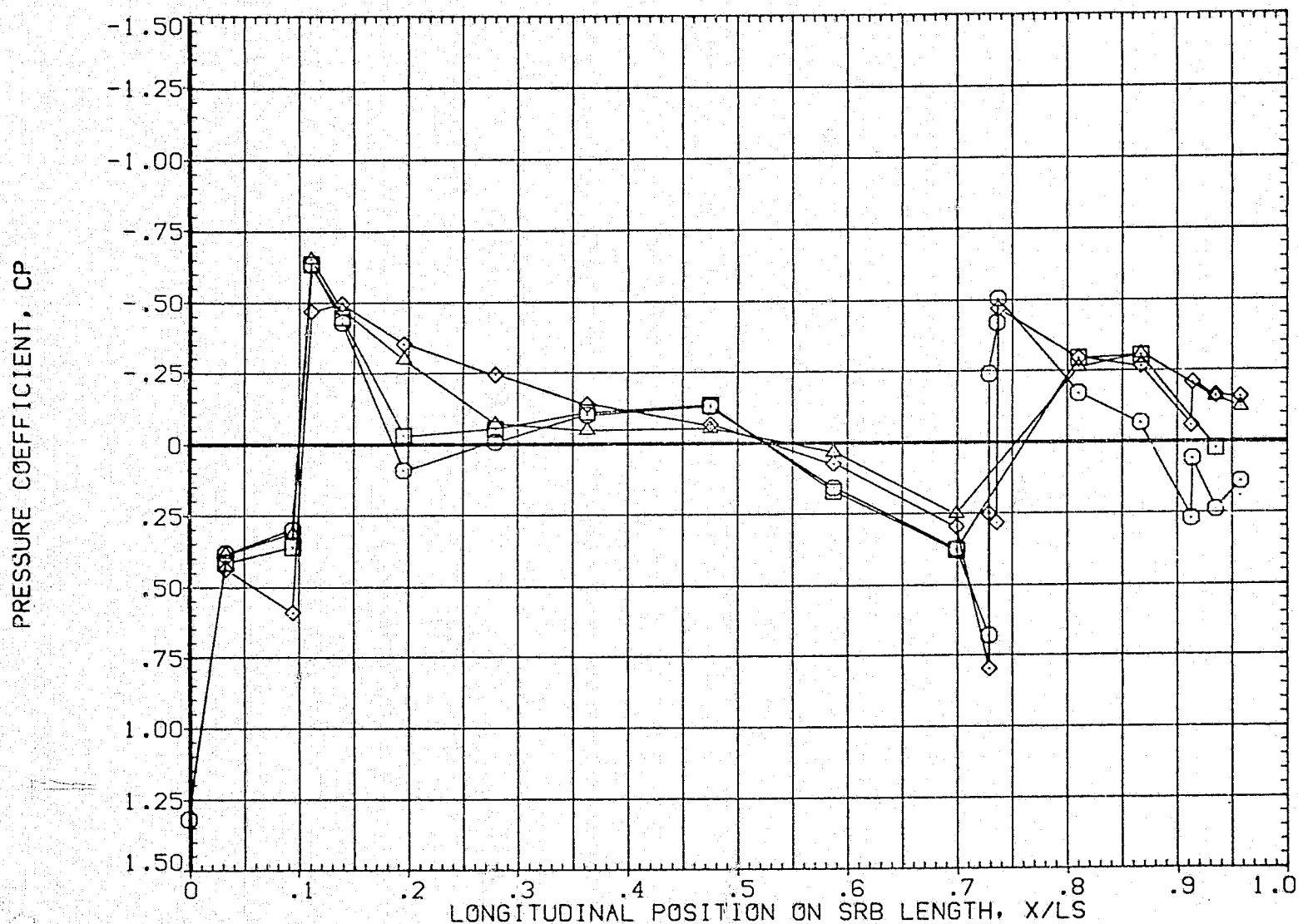


FIG. 64 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

SYMBOL	PHI	BETAL	ALPHAL
○	.000	4.000	.000
□	45.000		
◇	90.000		
△	135.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

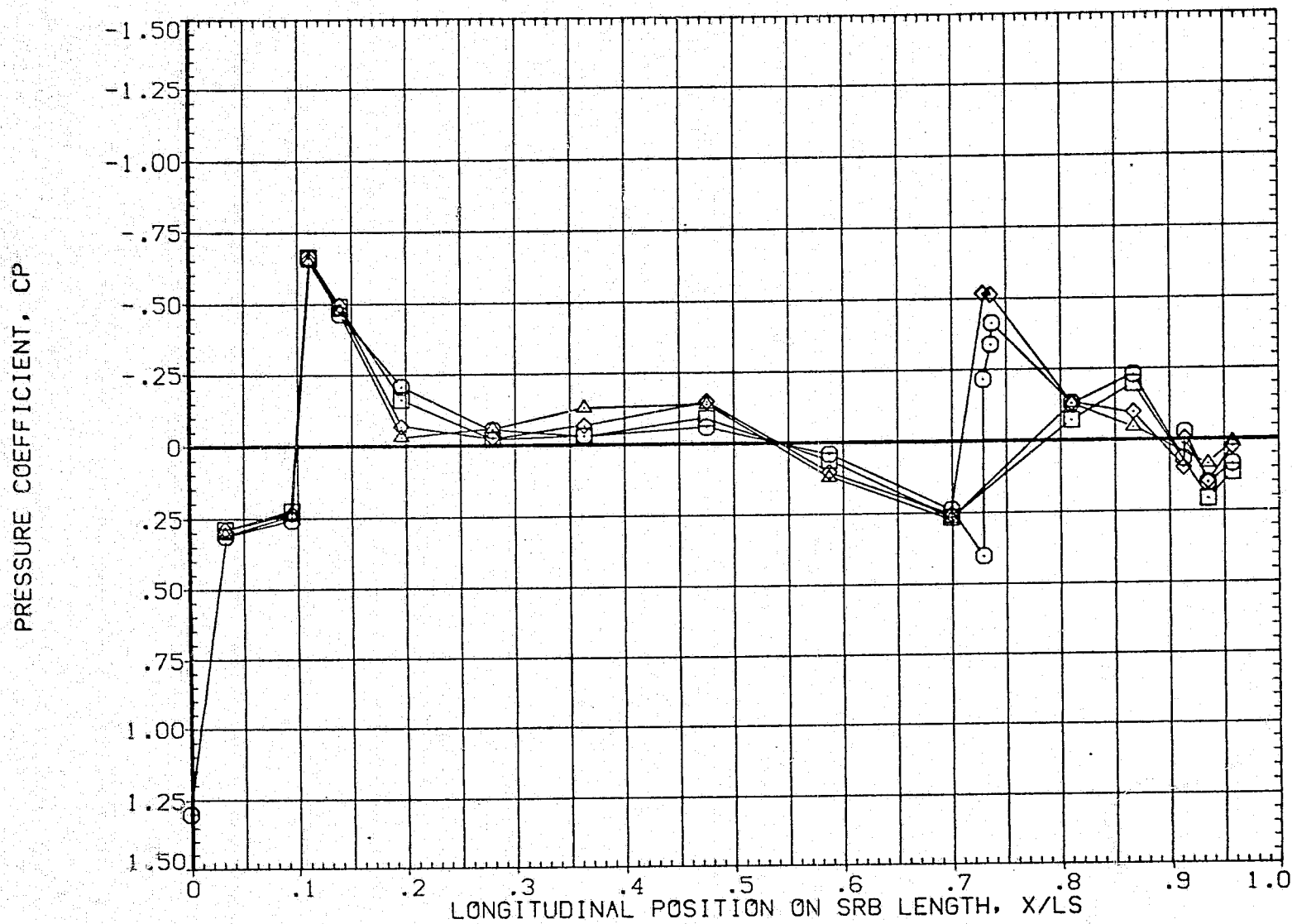


FIG. 64 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER (IETS09)

SYMBOL	PHI	BETAL	ALPHAL
○	180.000	4.000	.000
□	225.000		
◇	270.000		
△	315.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

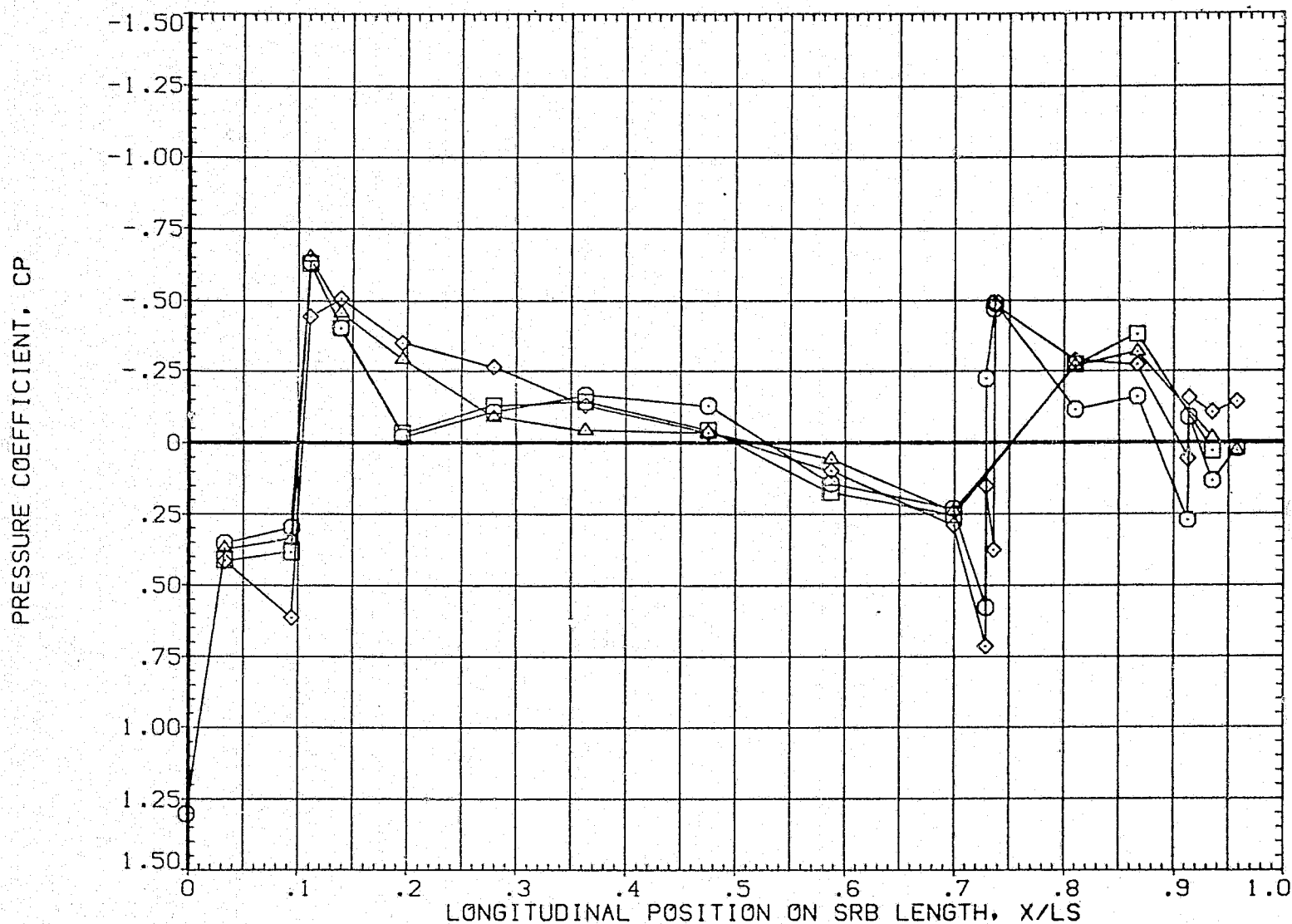


FIG. 64 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

SYMBOL	PHI	BETAL	ALPHAL
○	.000	-4.000	4.000
□	45.000		
◇	90.000		
△	135.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

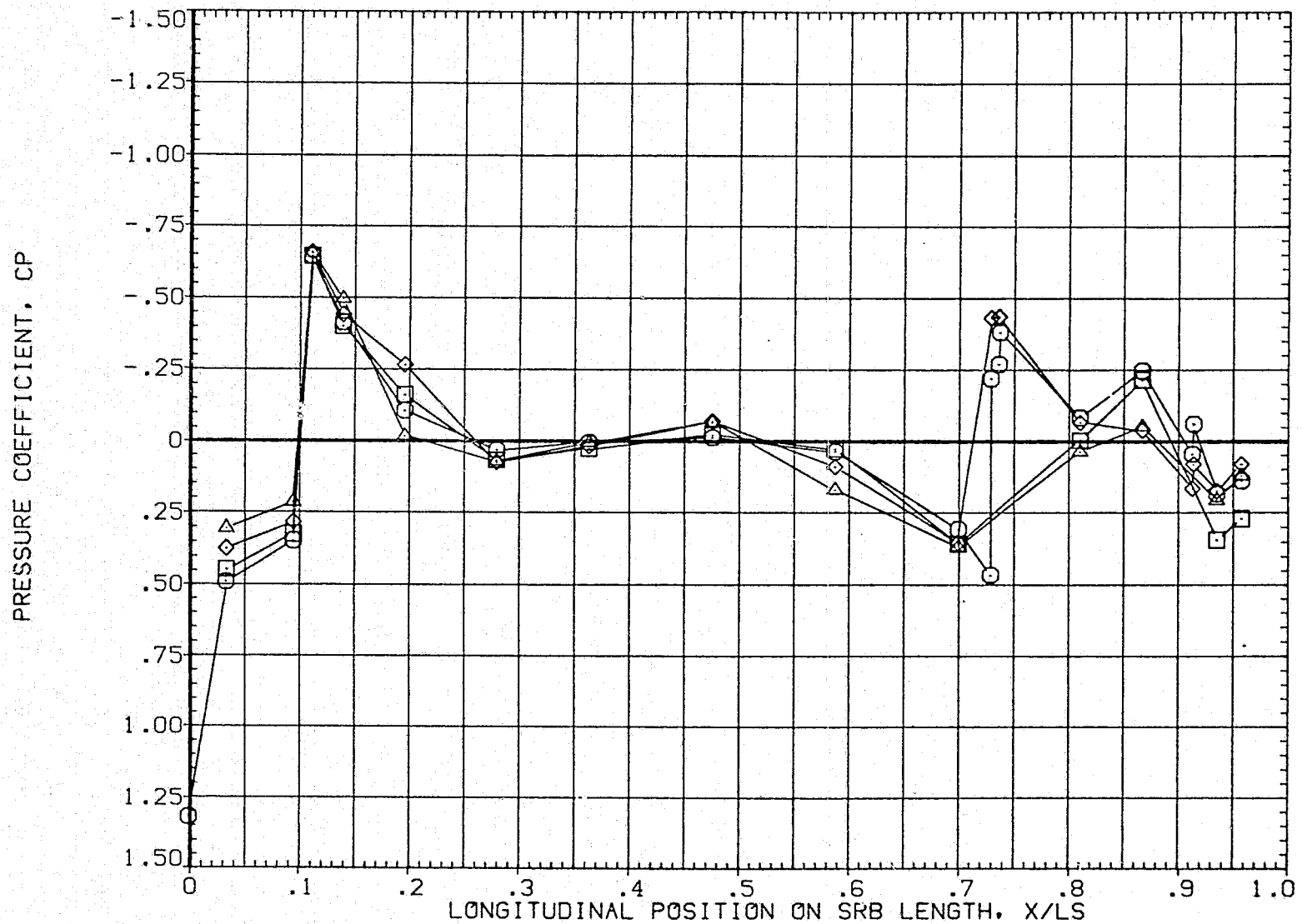


FIG. 64 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER (IETS09)

SYMBOL	PHI	BETAL	ALPHAL
○	180.000	-4.000	4.000
□	225.000		
◇	270.000		
△	315.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

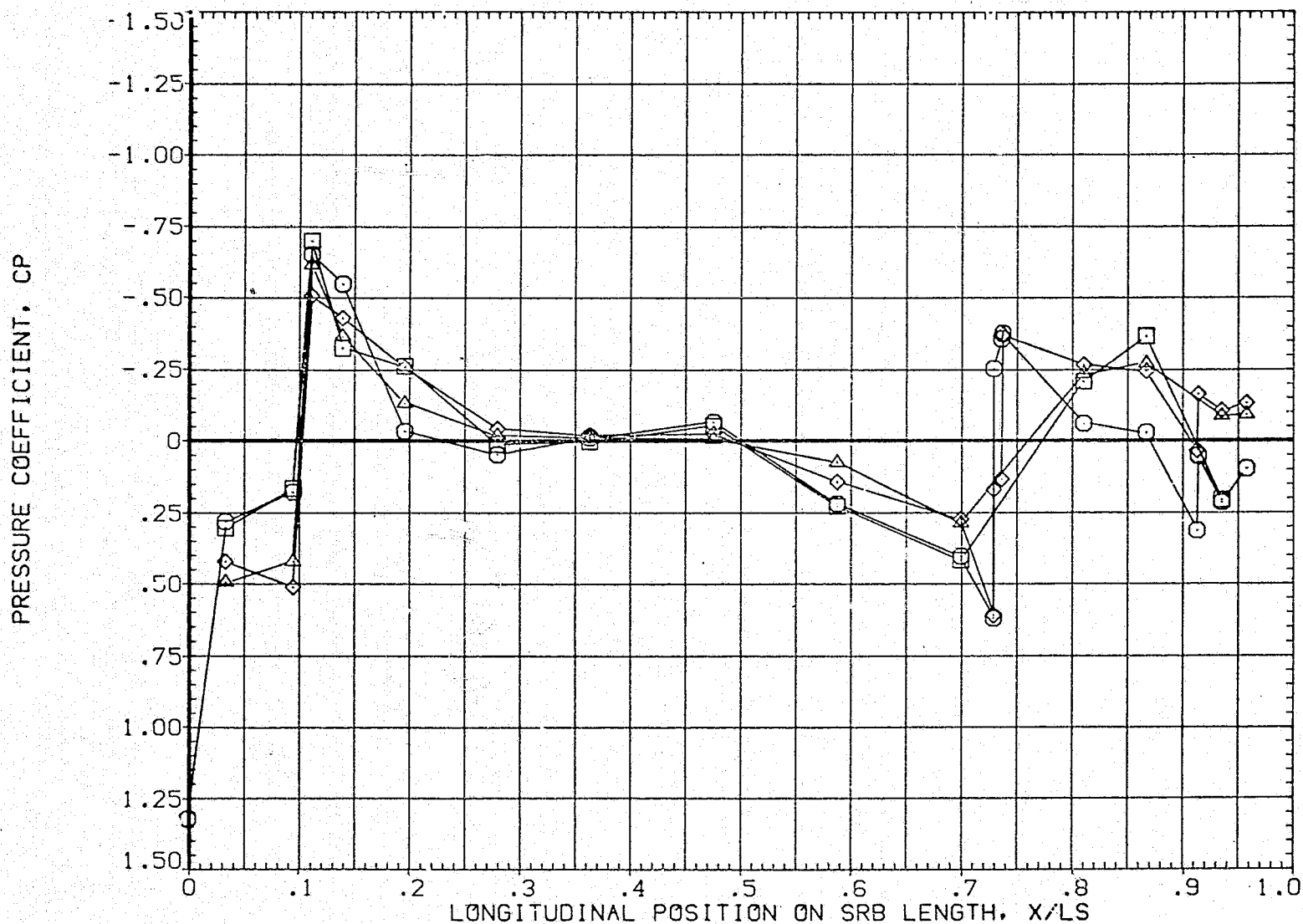


FIG. 64 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

SYMBOL	PHI	BETAL	ALPHAL
○	.000	.000	4.000
□	45.000		
◇	90.000		
△	135.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

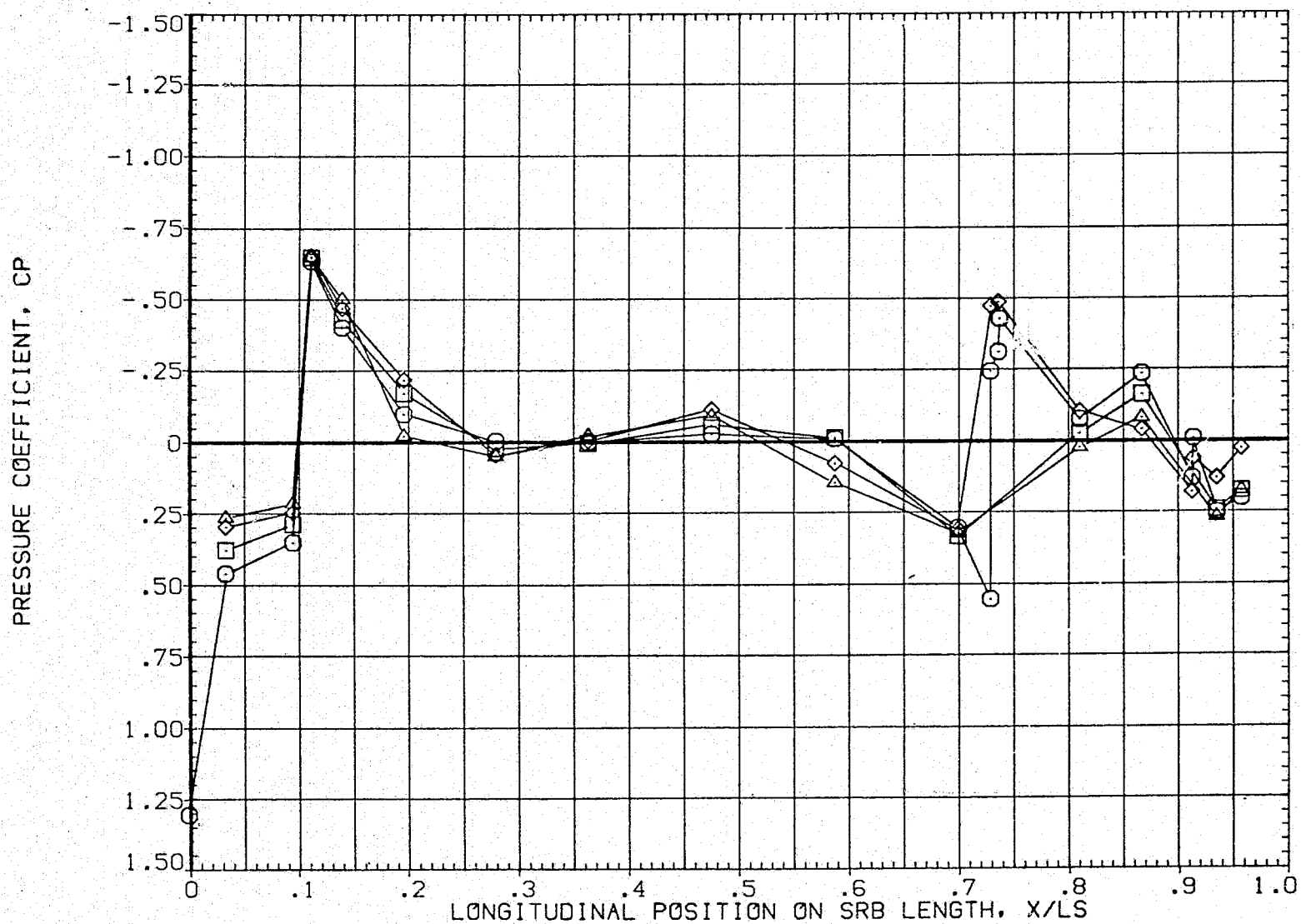


FIG. 64 SRB LONG. PRESSURE DIST. ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 1.1

ARC11-019 IA81 LVAP(ELHL UNSEALD) SRM BOOSTER (IETS09)

SYMBOL	PHI	BETAL	ALPHAL
○	180.000	.000	4.000
□	225.000		
◇	270.000		
△	315.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

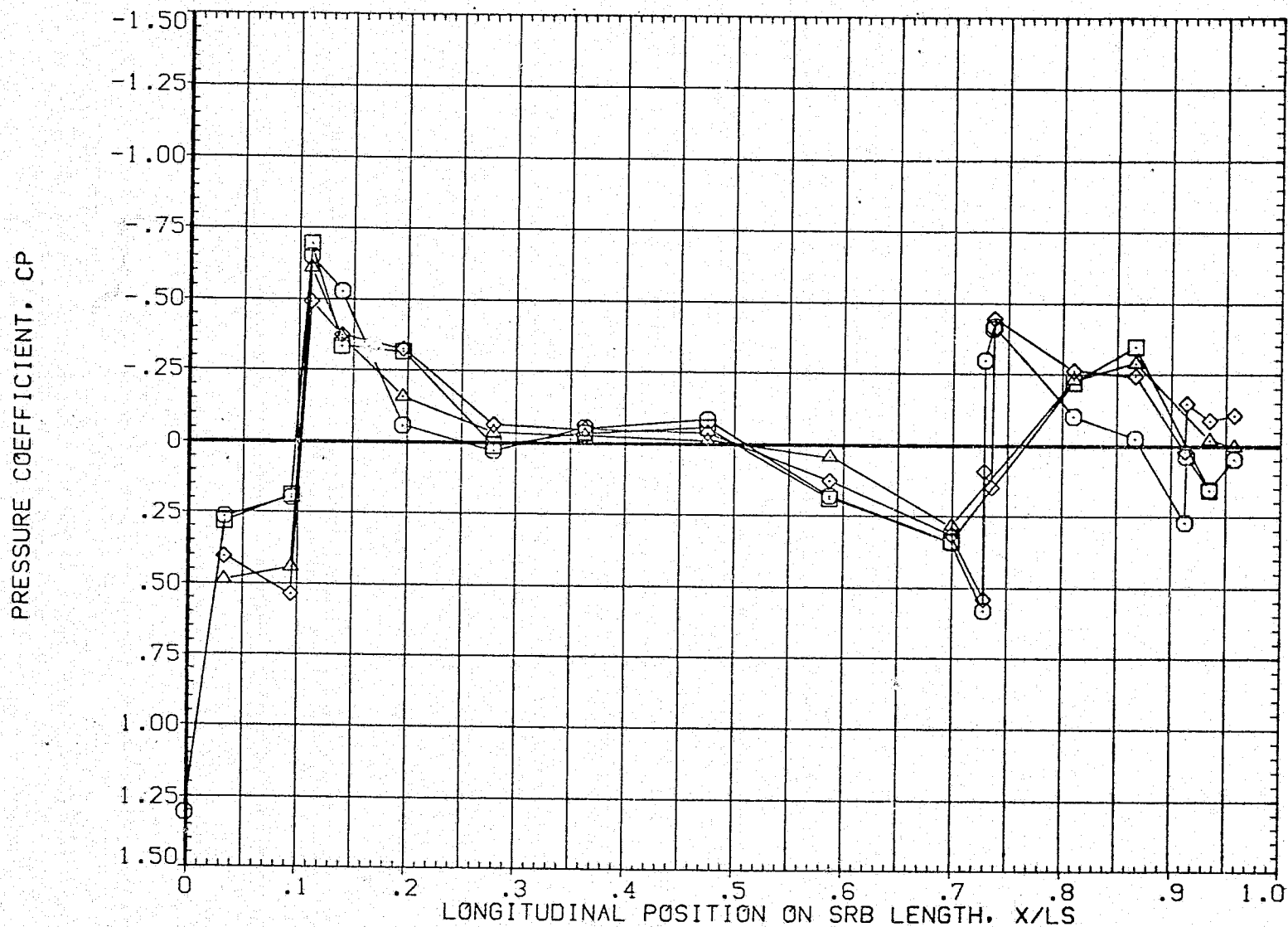


FIG. 64 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

SYMBOL	PHI	BETAL	ALPHAL
○	.000	4.000	4.000
□	45.000		
◇	90.000		
△	135.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

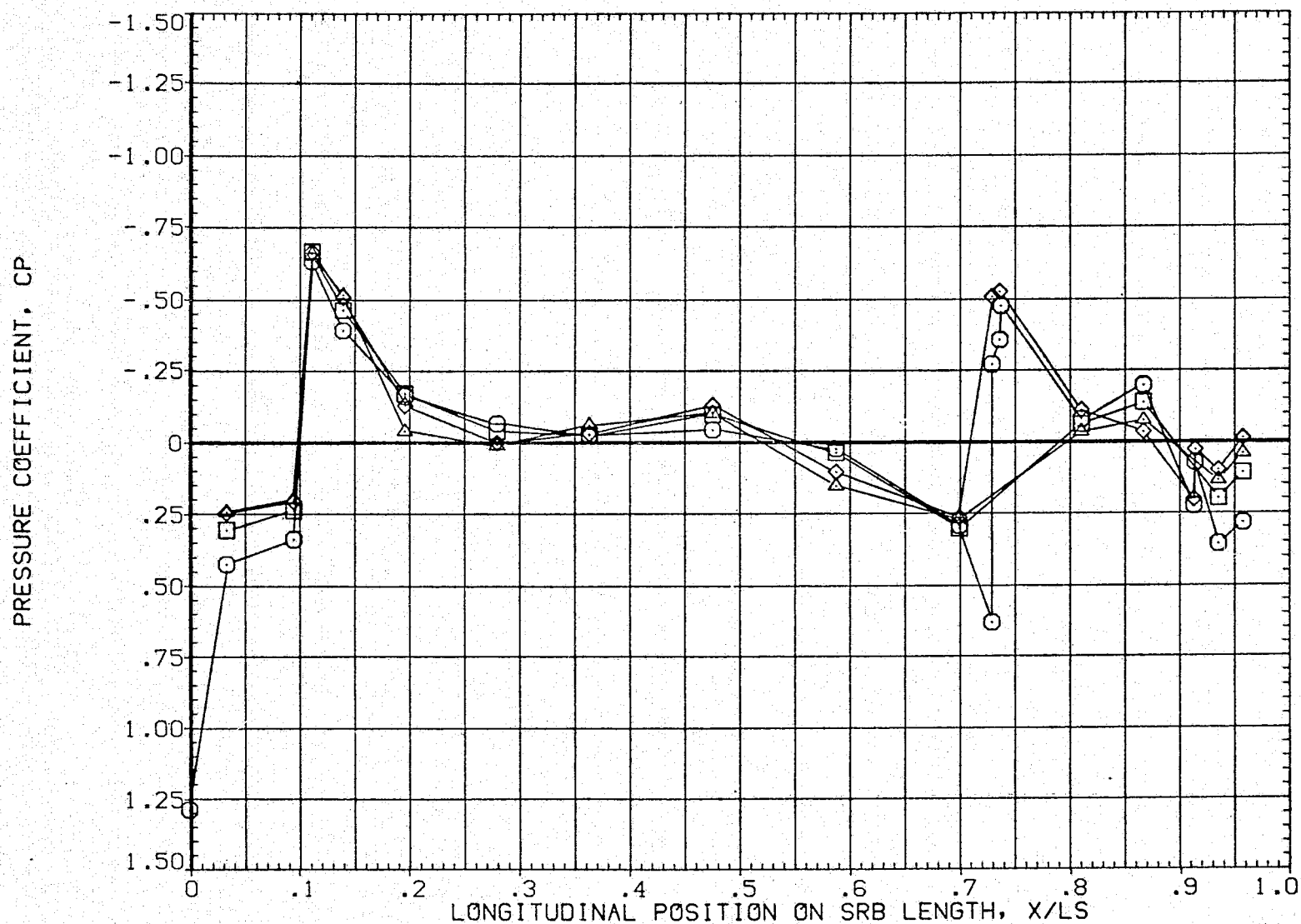


FIG. 64 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

ARC11-019 1A81 LVAP(ELHL UNSEALD) SRM BOOSTER (IETS09)

SYMBOL	PHI	BETAL	ALPHAL
○	180.000	4.000	4.000
□	225.000		
◇	270.000		
△	315.000		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

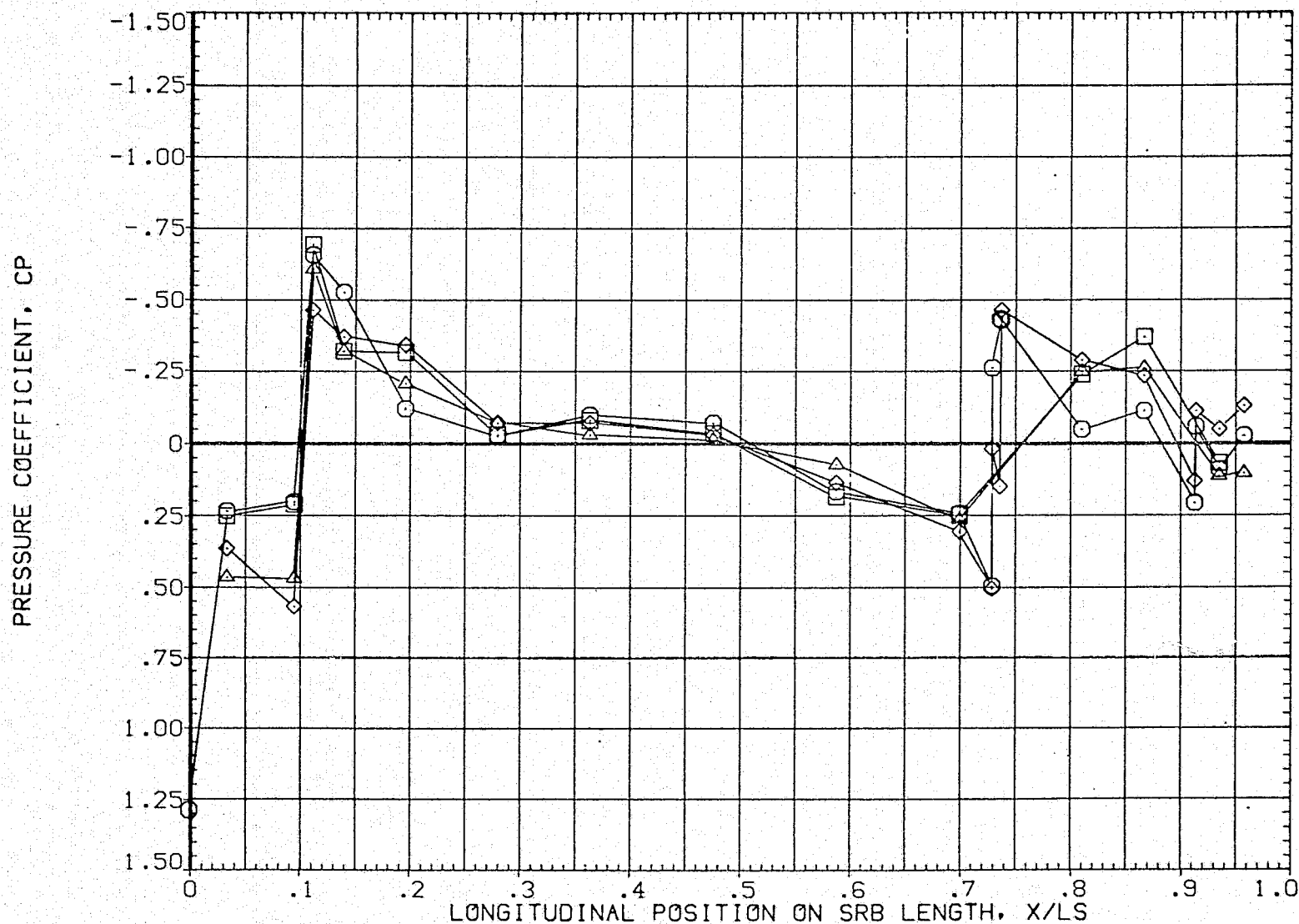


FIG. 64 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

SYMBOL	PHI	BETAL	ALPHAL
○	.000	-4.000	-4.000
□	45.000		
◇	90.000		
△	135.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

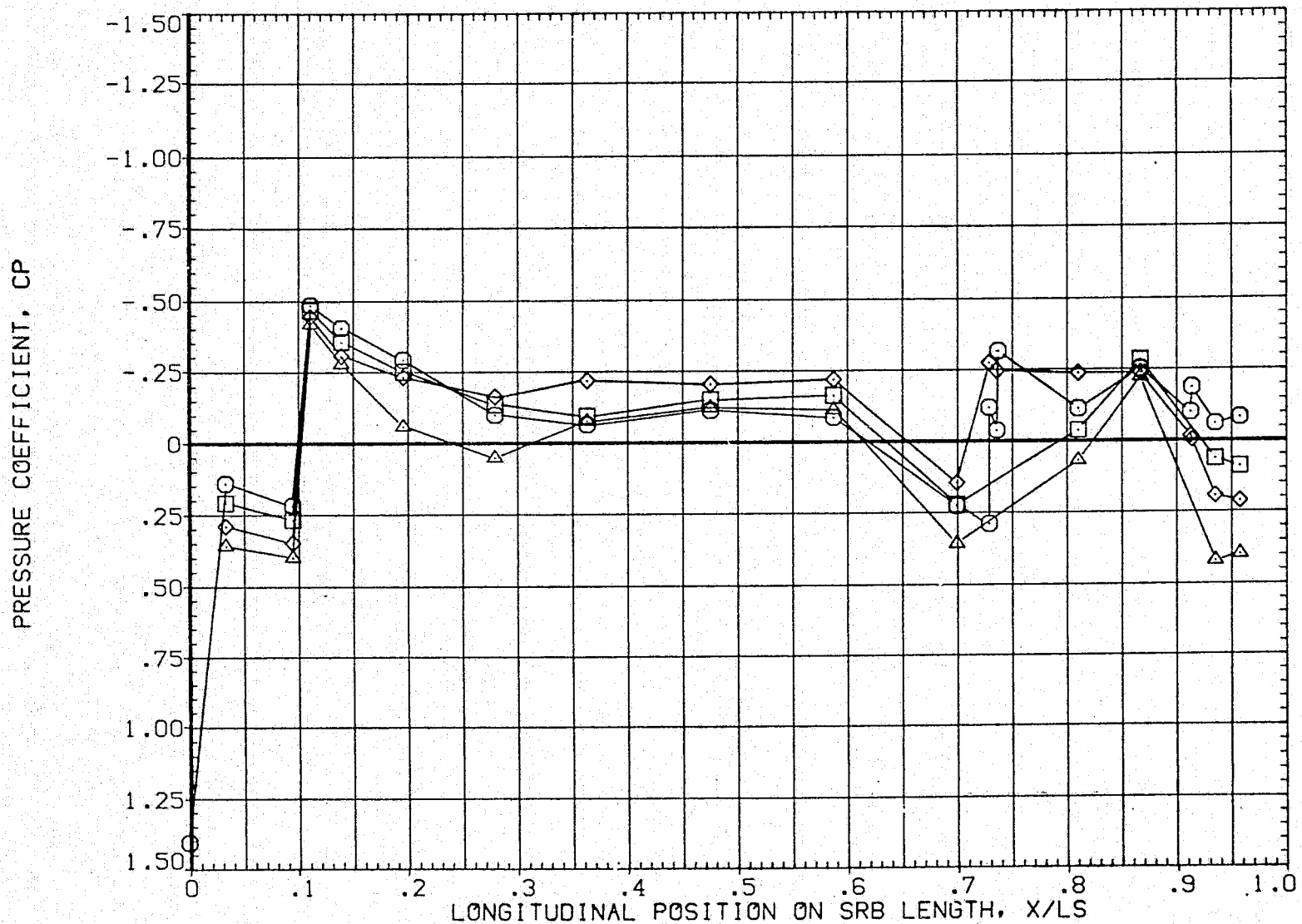


FIG. 65 SRB LONG. PRESSURE DIST. ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 1.25

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER (IETS11)

SYMBOL	PHI	BETAL	ALPHAL
○	180.000	-4.000	-4.000
□	225.000		
◇	270.000		
△	315.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

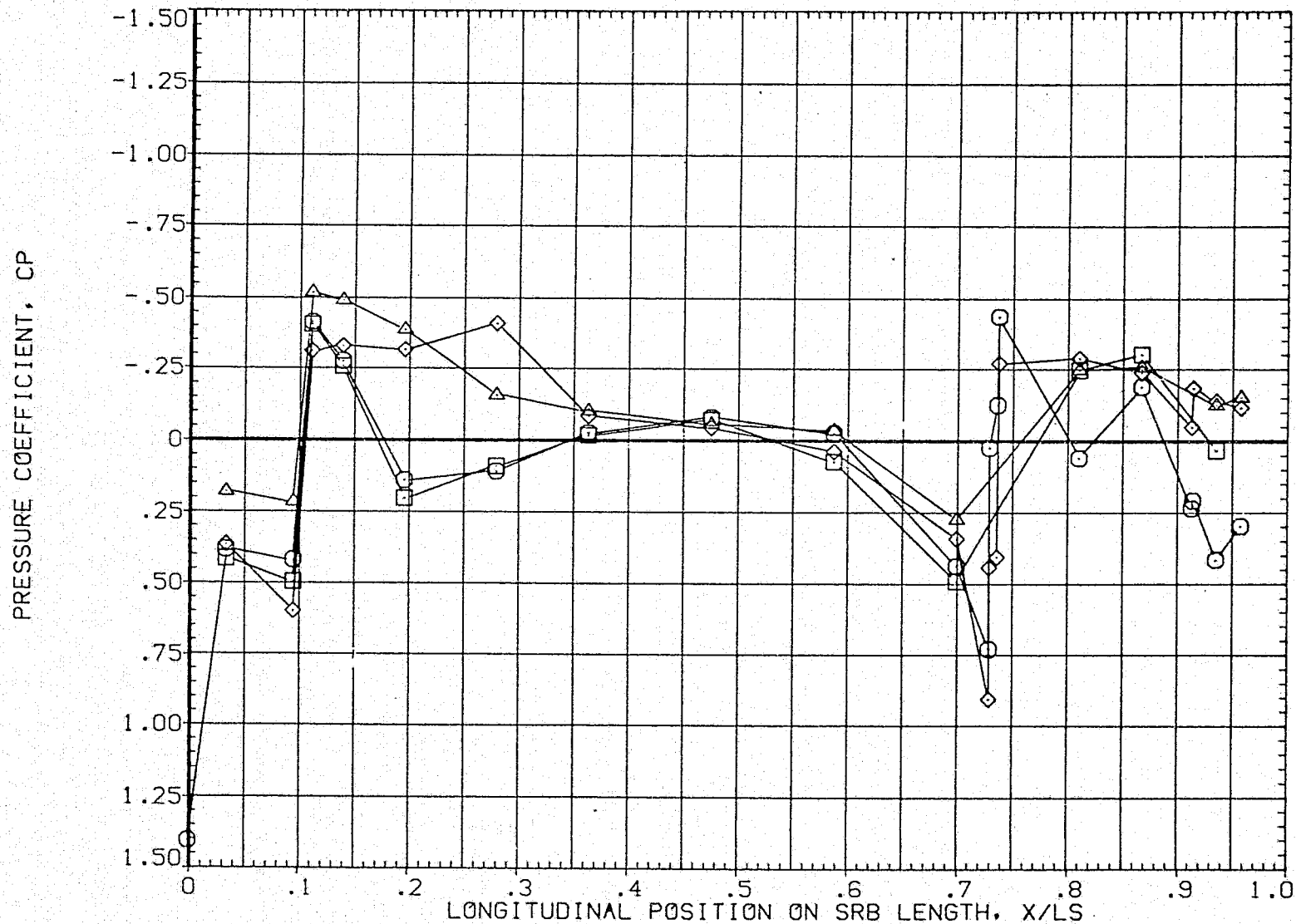


FIG. 65 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER (IETS11)

SYMBOL	PHI	BETAL	ALPHAL
○	.000	.000	-4.000
□	45.000		
◇	90.000		
△	135.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

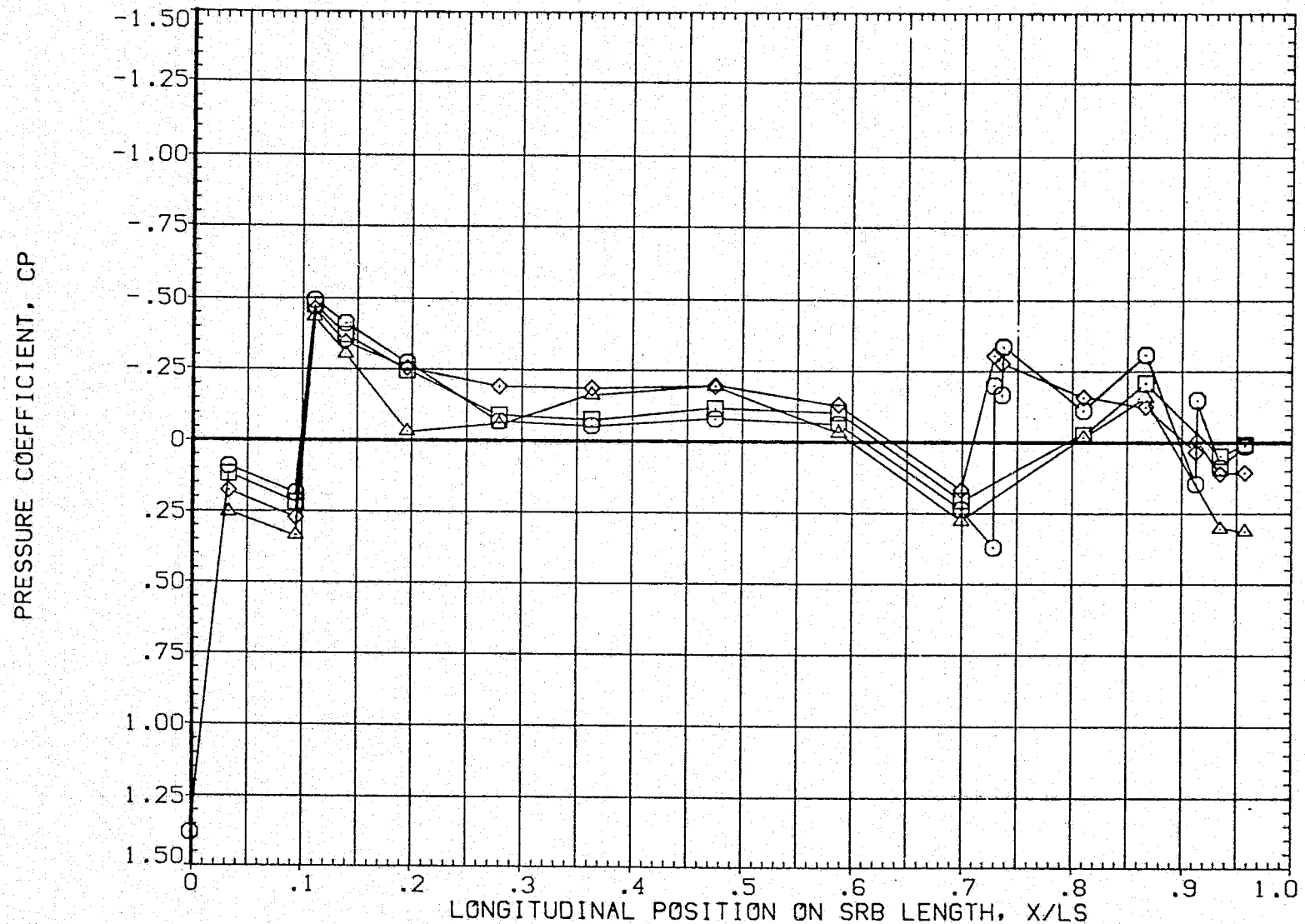


FIG. 65 SRB LONG. PRESSURE DIST. ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 1.25

ARC11-019 1A81 LVAP(ELHL SEALED) SRM BOOSTER (IETS11)

SYMBOL	PHI	BETAL	ALPHAL
○	180.000	.000	-4.000
□	225.000		
◇	270.000		
△	315.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

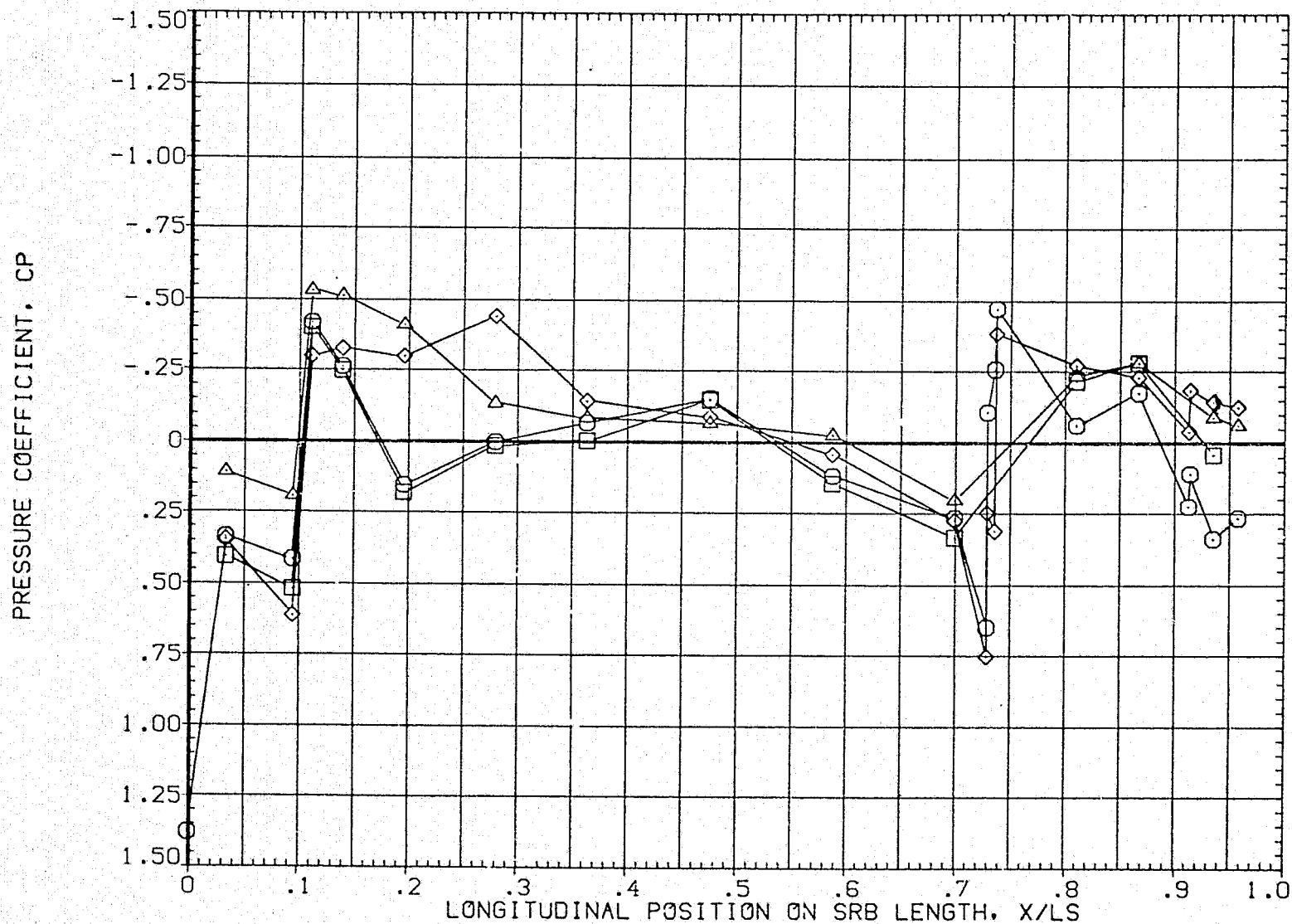


FIG. 65 SRB LONG. PRESSURE DIST. ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 1.25

SYMBOL	PHI	BETAL	ALPHAL
○	.000	4.000	-4.000
□	45.000		
◇	90.000		
△	135.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDGER	.000	SPDBRK	.000

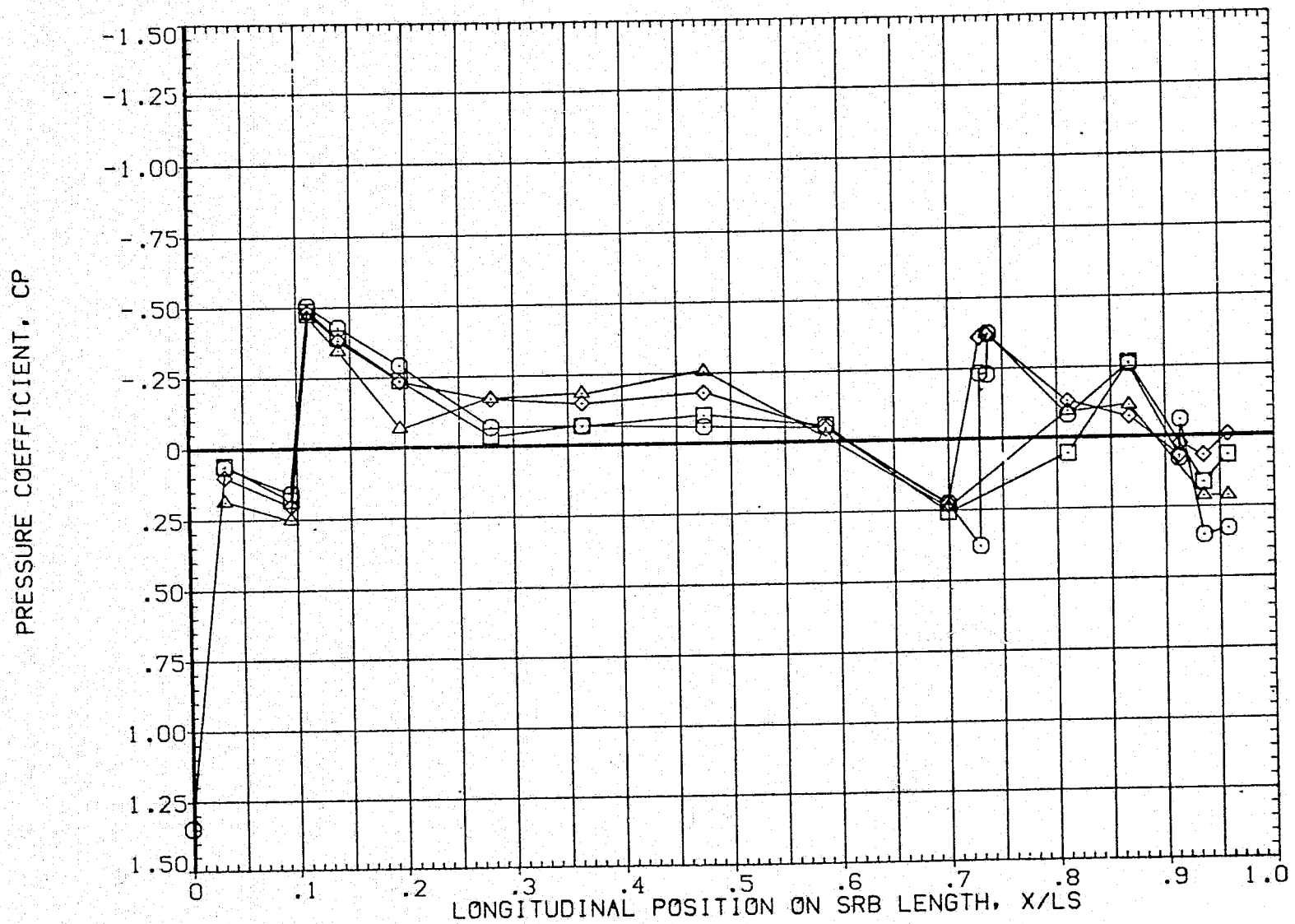


FIG. 65 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

ARC11-019 1A81 LVAP(ELHL SEALED) SRM BOOSTER (IETS11)

SYMBOL	PHI	BETAL	ALPHAL
○	180.000	4.000	-4.000
□	225.000		
◇	270.000		
△	315.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

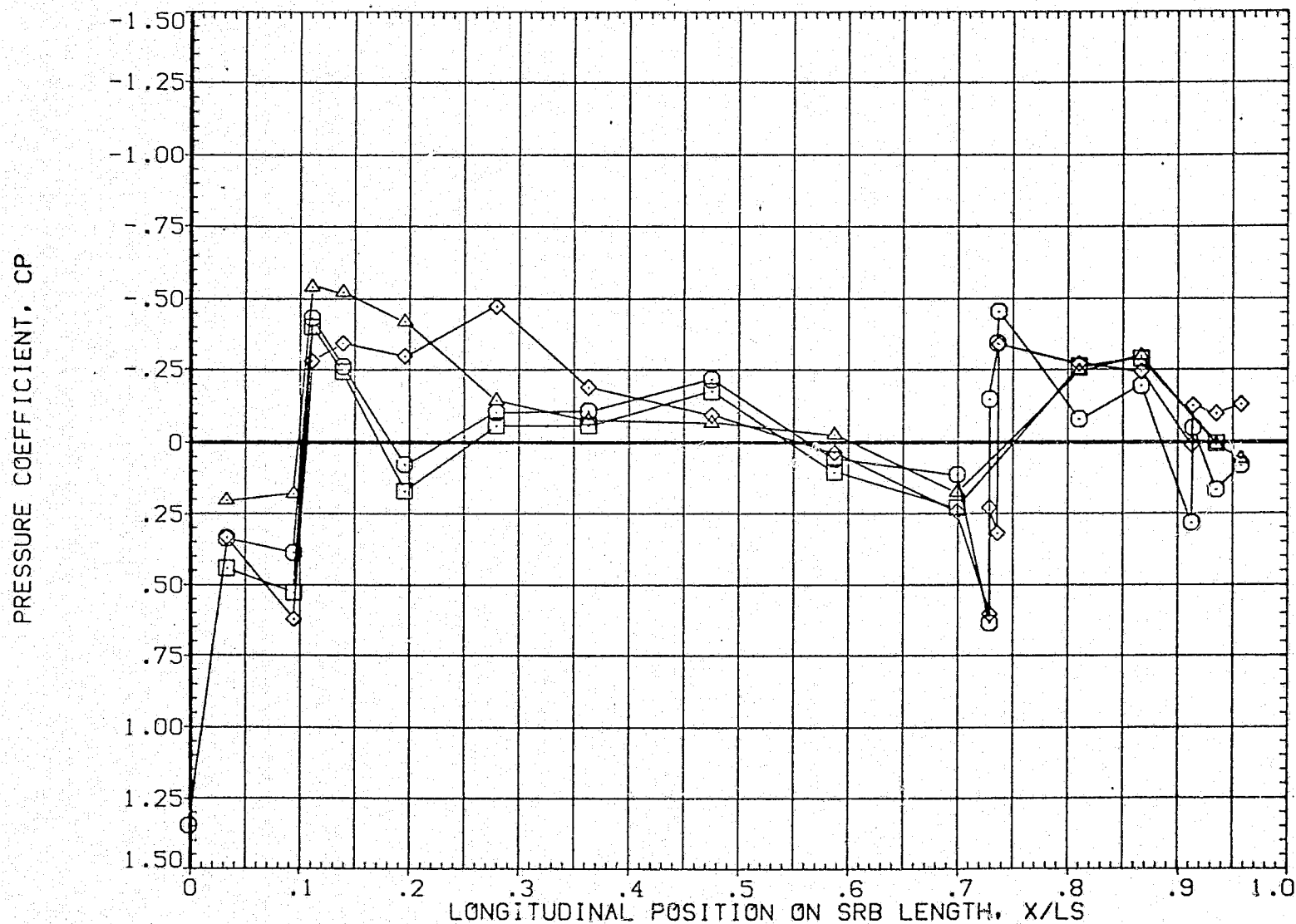


FIG. 65 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

SYMBOL	PHI	BETAL	ALPHAL
○	.000	-4.000	.000
□	45.000		
◇	90.000		
△	135.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

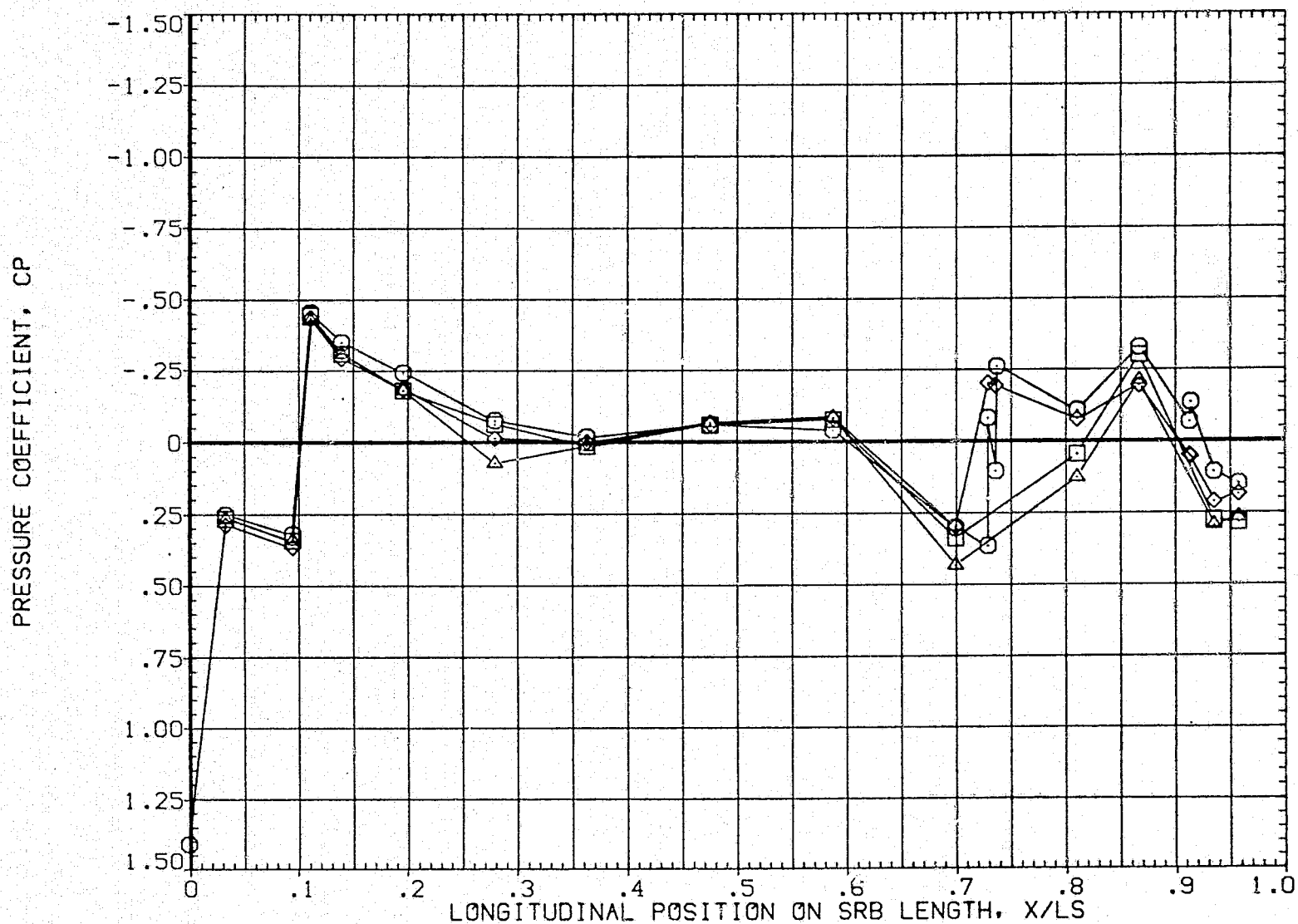


FIG. 65 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

ARC11-019 1A81 LVAP(ELHL SEALED) SRM BOOSTER (IETS11)

SYMBOL	PHI	BETAL	ALPHAL
○	180.000	-4.000	.000
□	225.000		
◇	270.000		
△	315.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

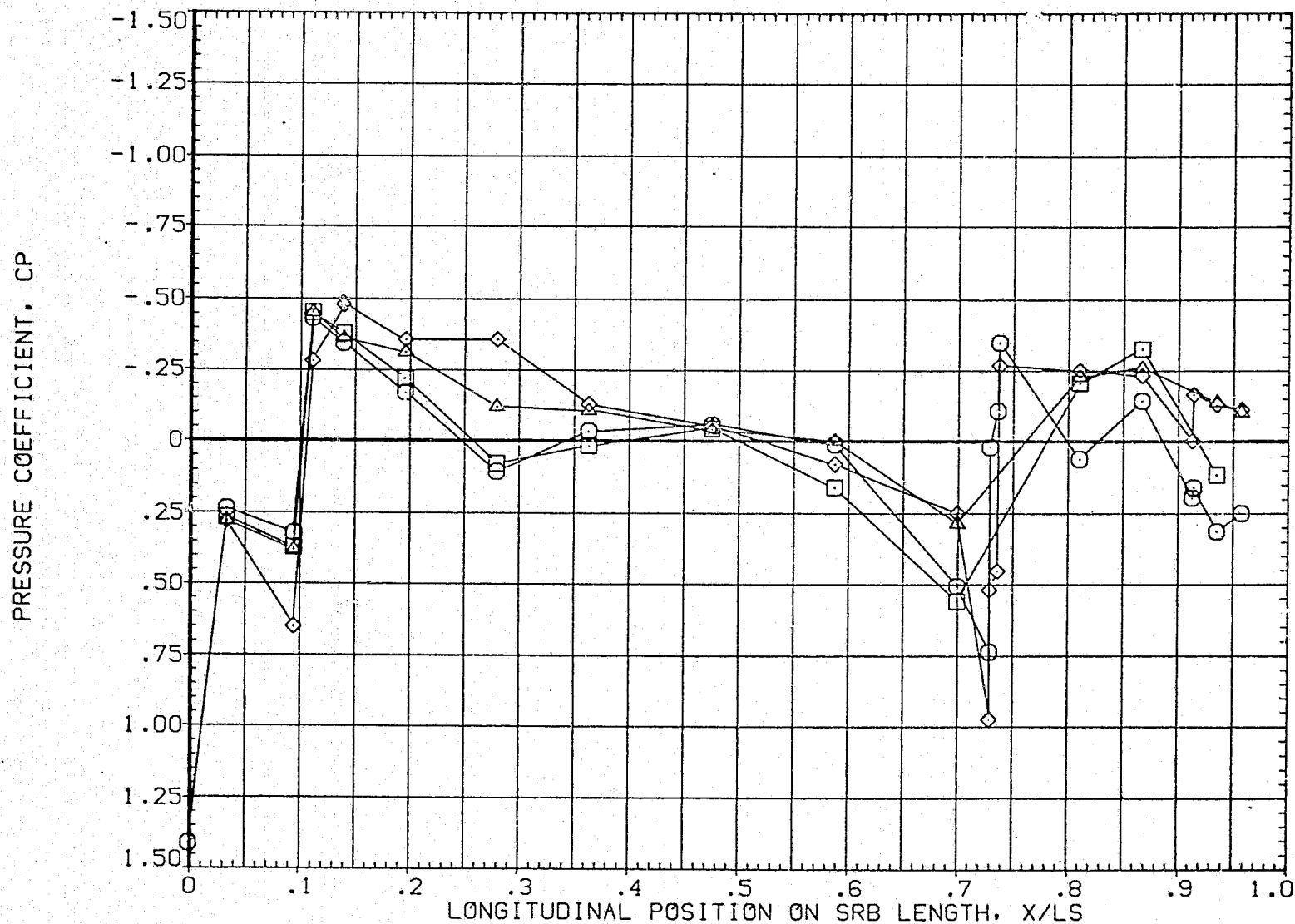


FIG. 65 SRB LONG. PRESSURE DIST. ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 1.25

SYMBOL	PHI	BETAL	ALPHAL
○	.000	.000	.000
□	45.000		
◇	90.000		
△	135.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

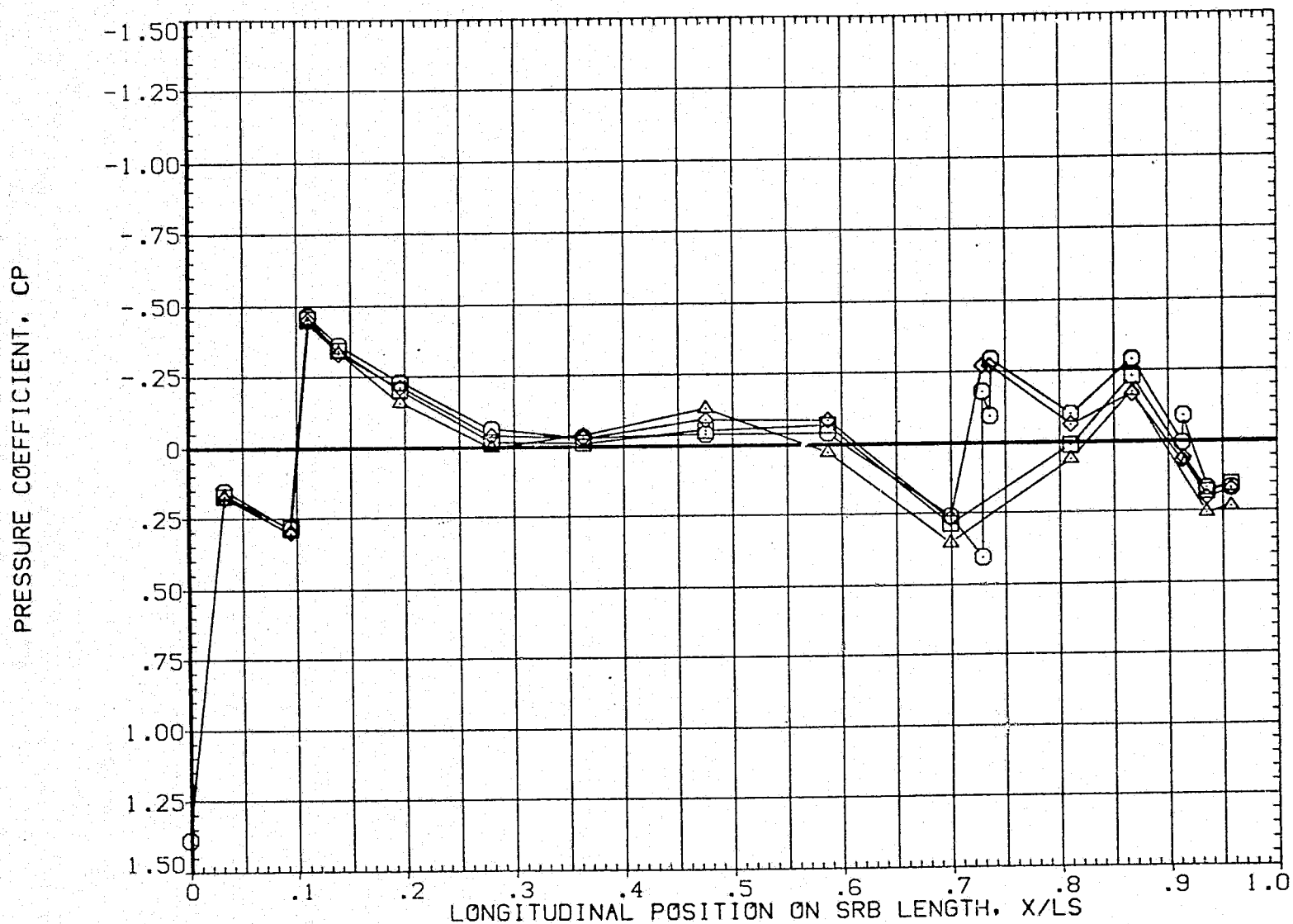


FIG. 65 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER (IETS11)

SYMBOL	PHI	BETAL	ALPHAL
○	180.000	.000	.000
□	225.000		
◇	270.000		
△	315.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

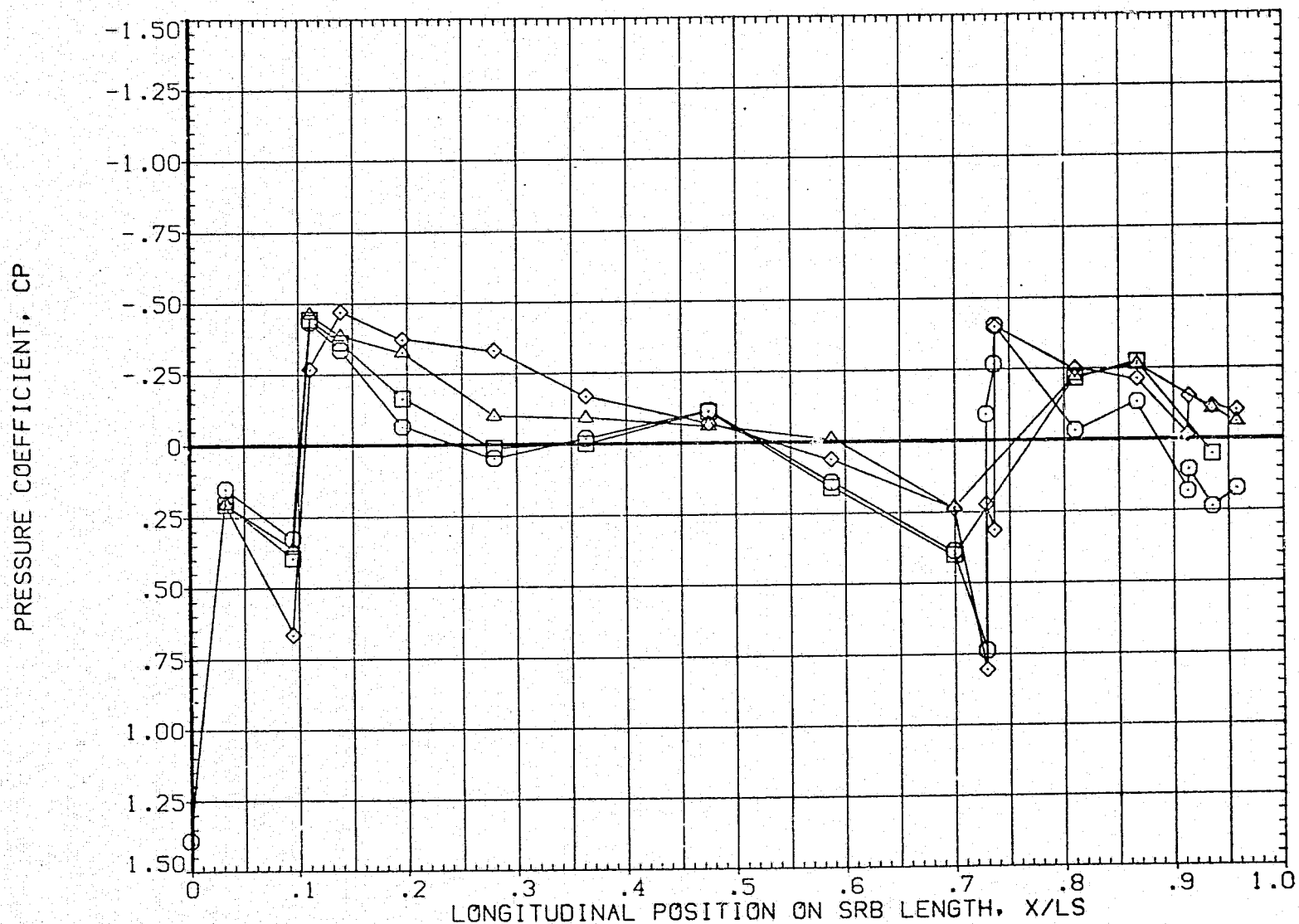


FIG. 65 SRB LONG. PRESSURE DIST. ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 1.25

SYMBOL	PHI	BETAL	ALPHAL
○	.000	4.000	.000
□	45.000		
◇	90.000		
△	135.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

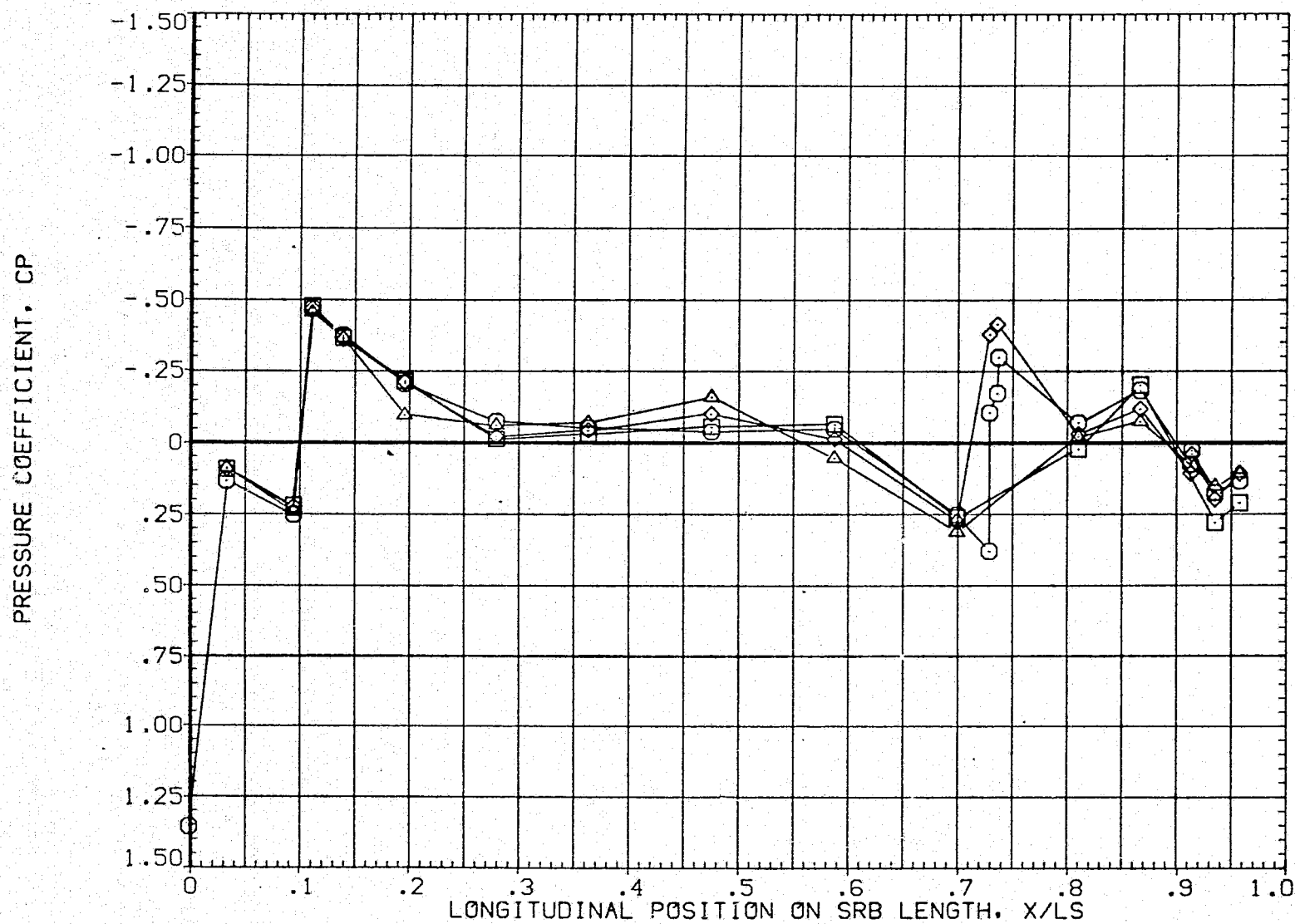


FIG. 65 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

ARC11-019 1A81 LVAP(ELHL SEALED) SRM BOOSTER (IETS11)

SYMBOL	PHI	BETAL	ALPHAL
○	180.000	4.000	.000
□	225.000		
◇	270.000		
△	315.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

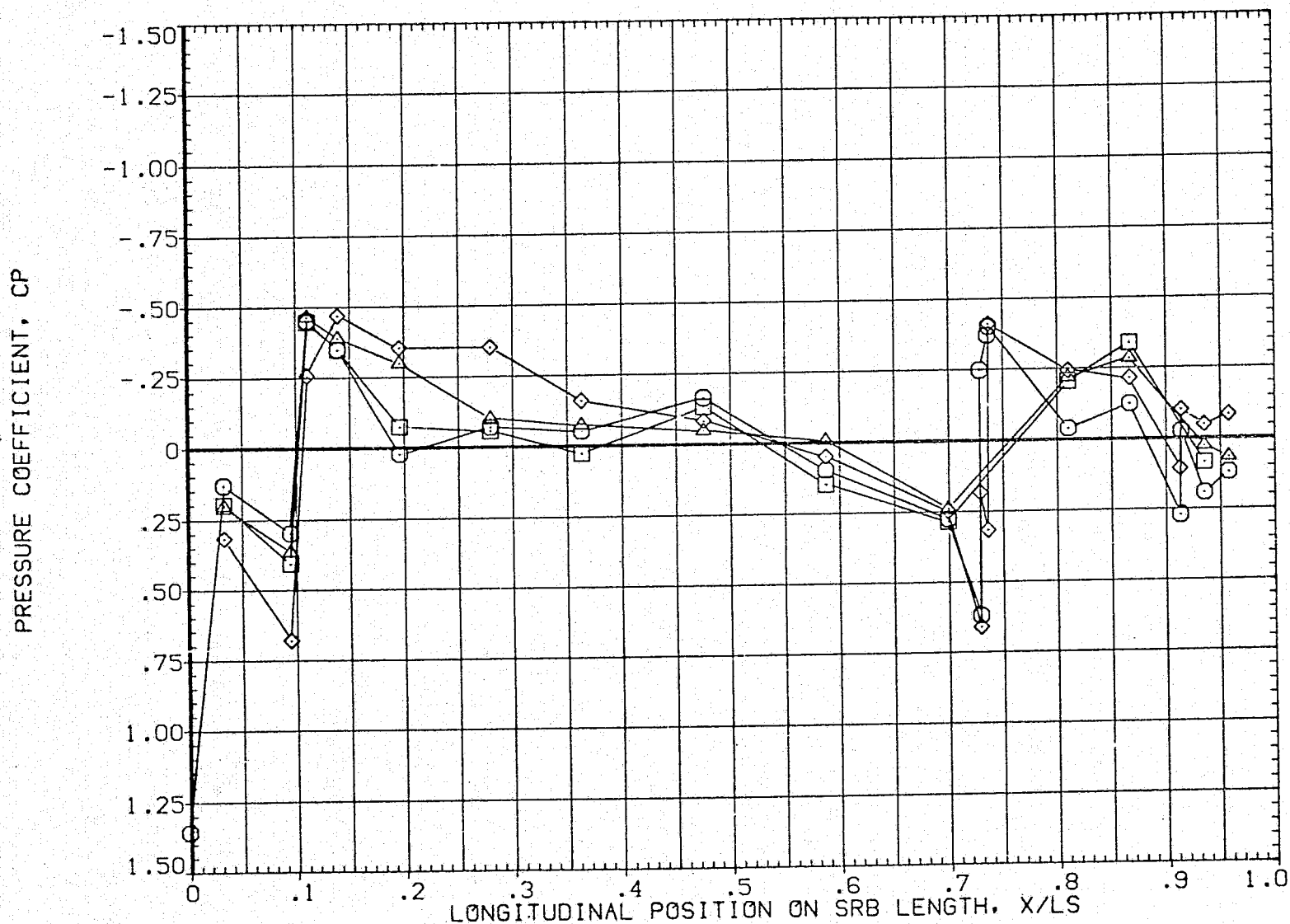


FIG. 65 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

SYMBOL	PHI	BETAL	ALPHAL
○	.000	-4.000	4.000
□	45.000		
◇	99.000		
△	135.000		

	PARAMETRIC VALUES		
MACH	1.250	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

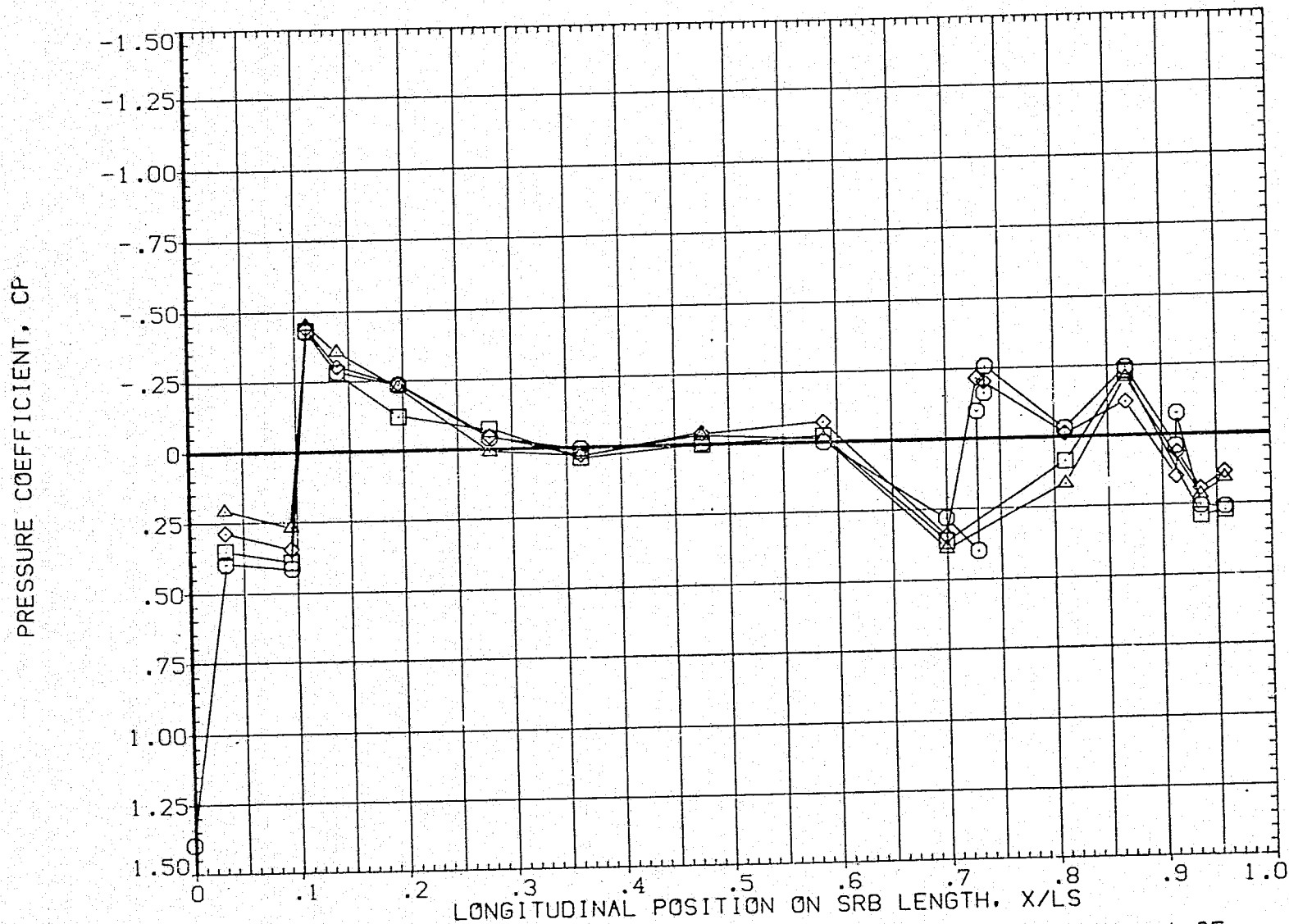


FIG. 65 SRB LONG. PRESSURE DIST. ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 1.25

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER (IETS11)

SYMBOL	PHI	BETAL	ALPHAL
○	180.000	-4.000	4.000
□	225.000		
◇	270.000		
△	315.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

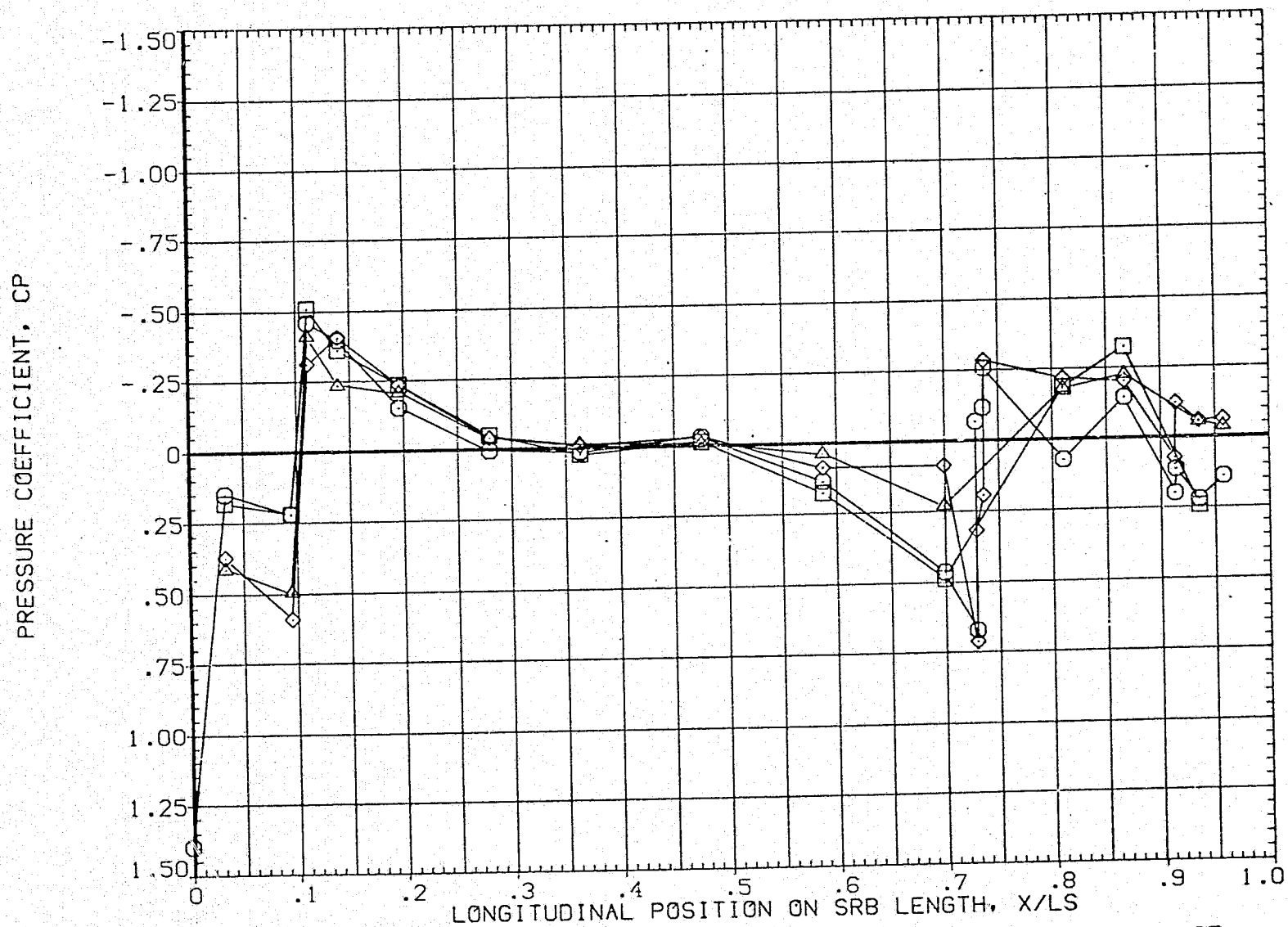


FIG. 65 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

SYMBOL	PHI	BETAL	ALPHAL
○	.000	.000	4.000
□	45.000		
◇	90.000		
△	135.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

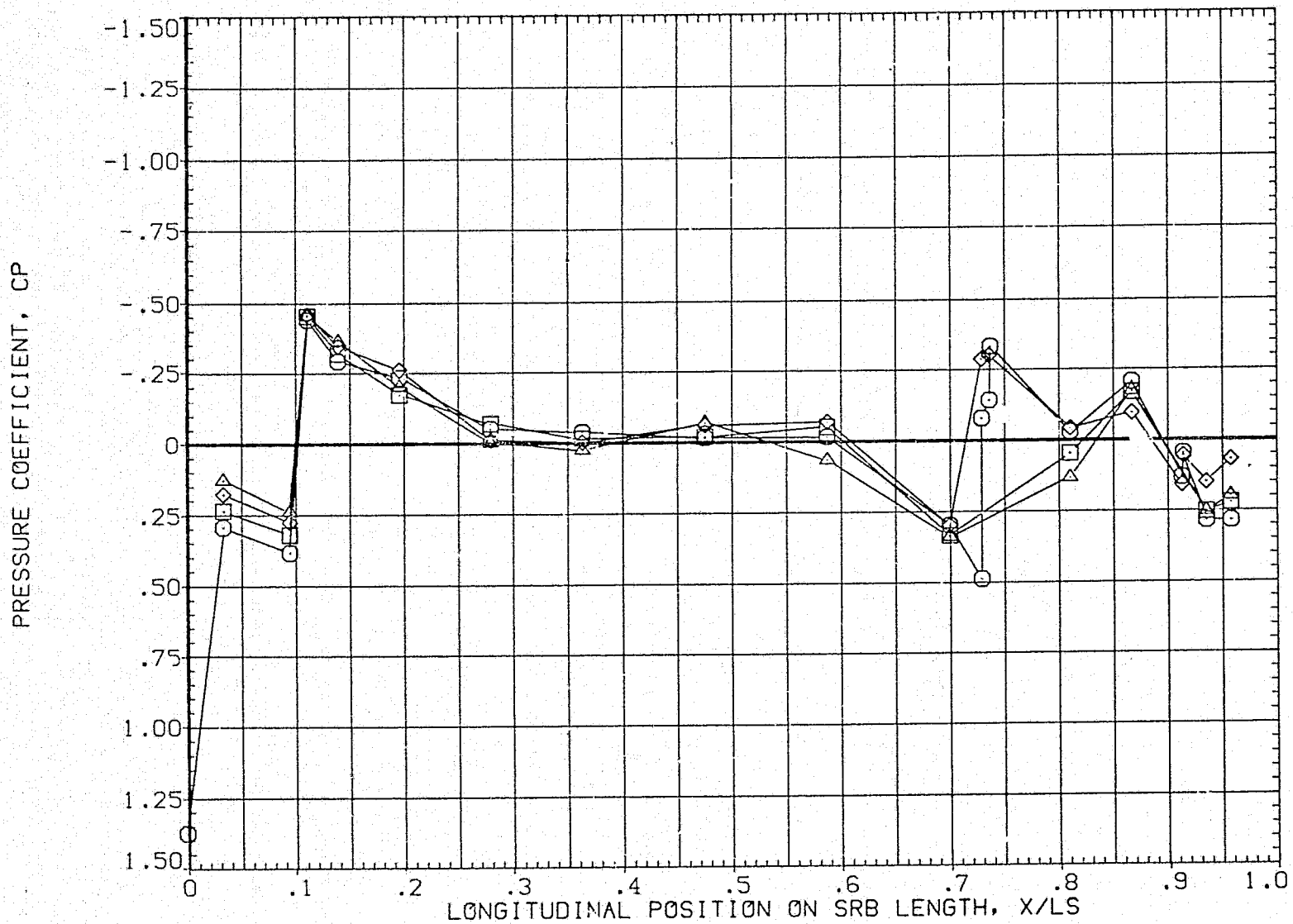


FIG. 65 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER (IETS11)

SYMBOL	PHI	BETAL	ALPHAL
○	180.000	.000	4.000
□	225.000		
◇	270.000		
△	315.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

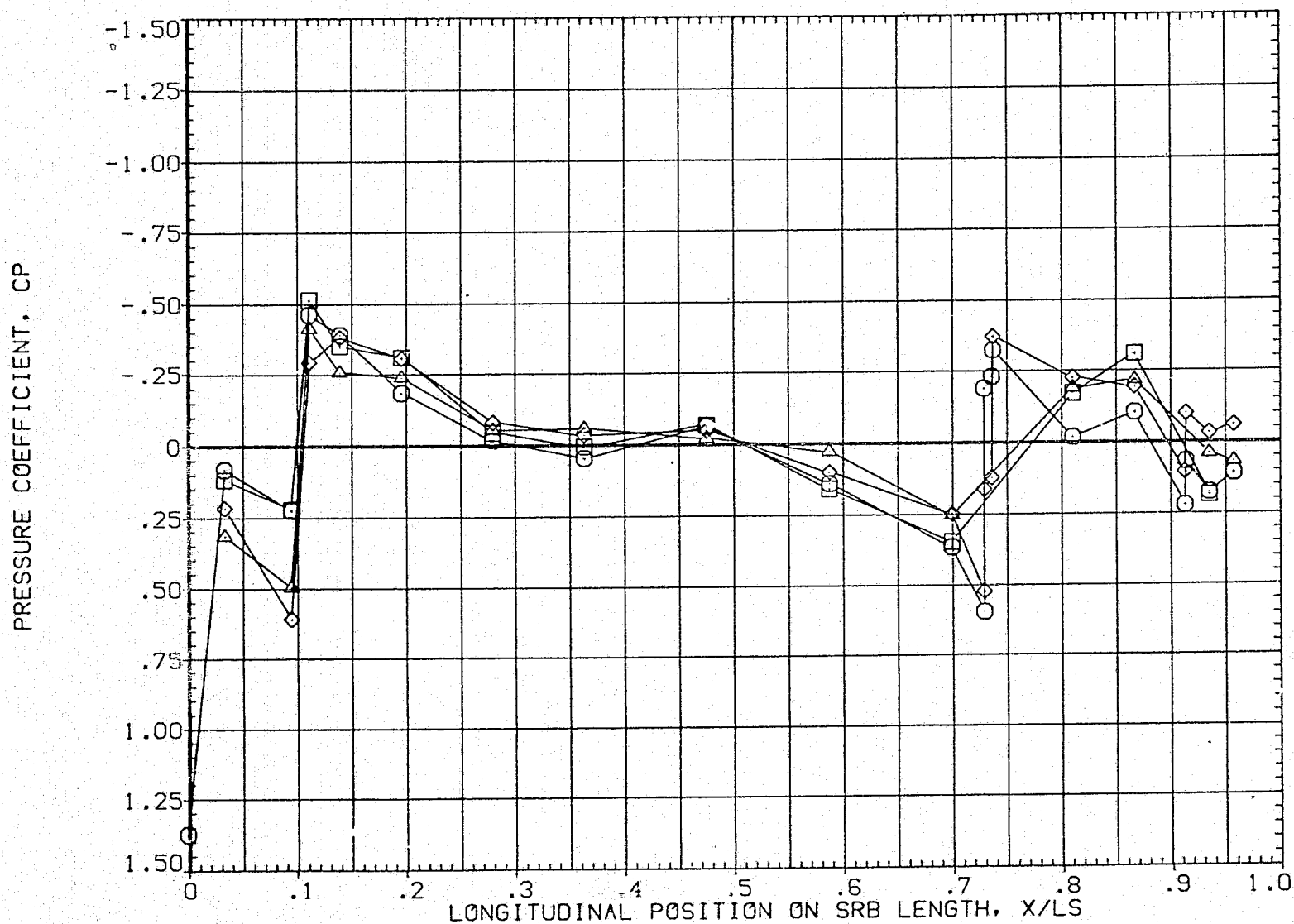


FIG. 65 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

SYMBOL	PHI	BETAL	ALPHAL
○	.000	4.000	4.000
□	45.000		
◇	90.000		
△	135.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

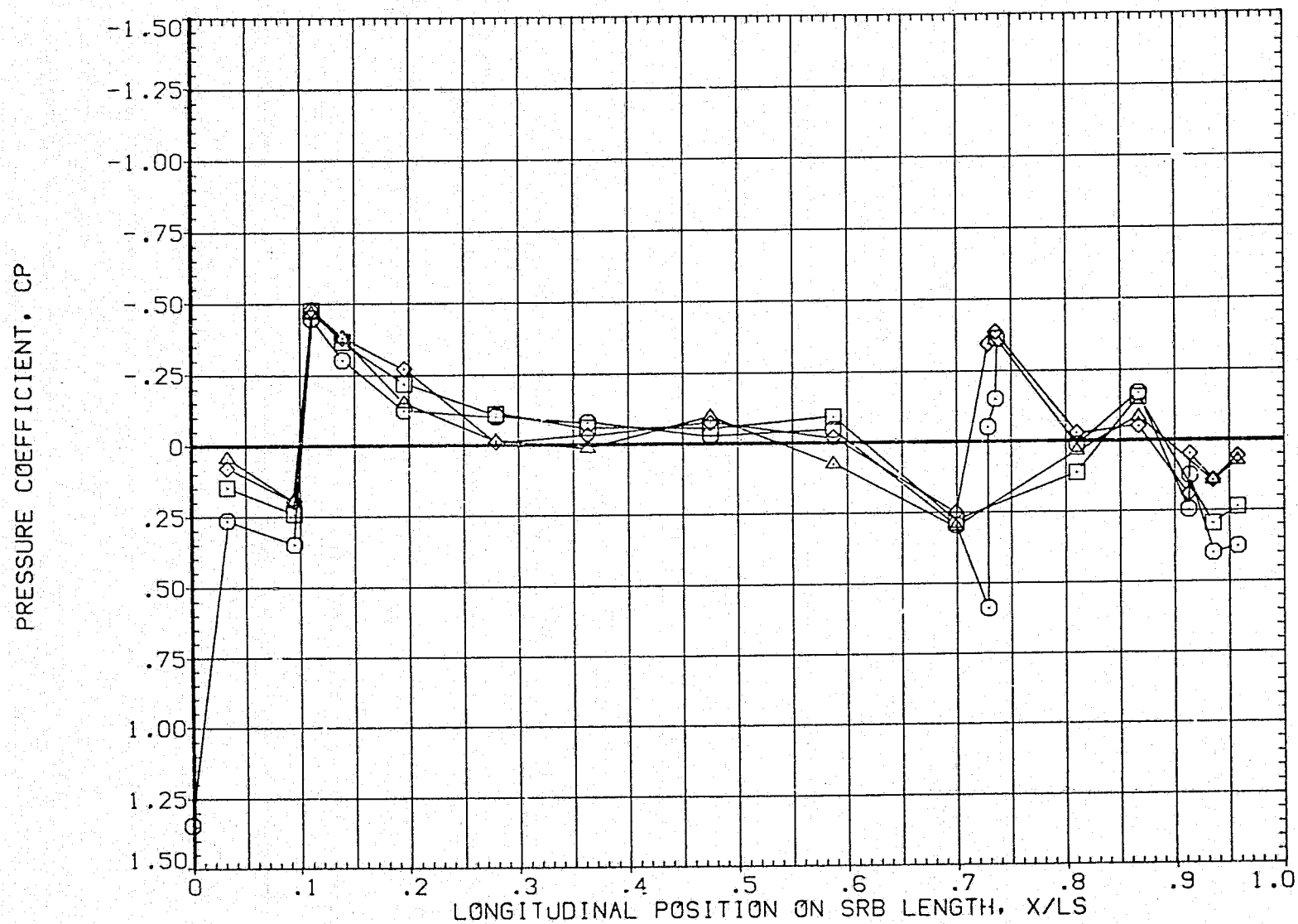


FIG. 65 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

ARC11-019 1A81 LVAP(ELHL SEALED) SRM BOOSTER (IETS11)

SYMBOL	PHI	BETAL	ALPHAL
○	180.000	4.000	4.000
□	225.000		
◇	270.000		
△	315.000		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

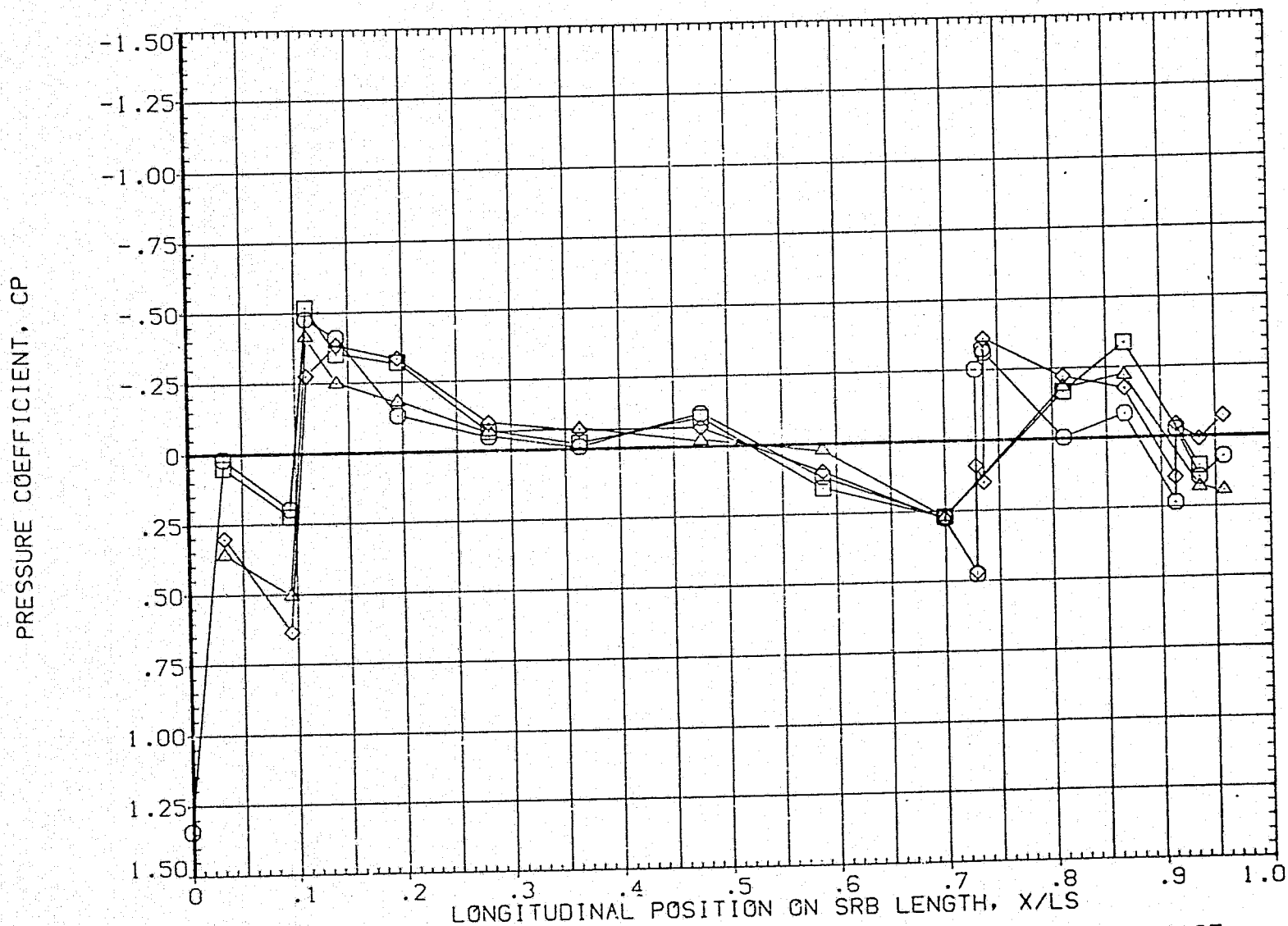


FIG. 65 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

SYMBOL	PHI	BETAL	ALPHAL
○	.000	-4.000	-4.000
□	45.000		
◇	90.000		
△	135.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-1B	8.000	ELV-0B	.000
RUDDER	.000	SPDBRK	.000

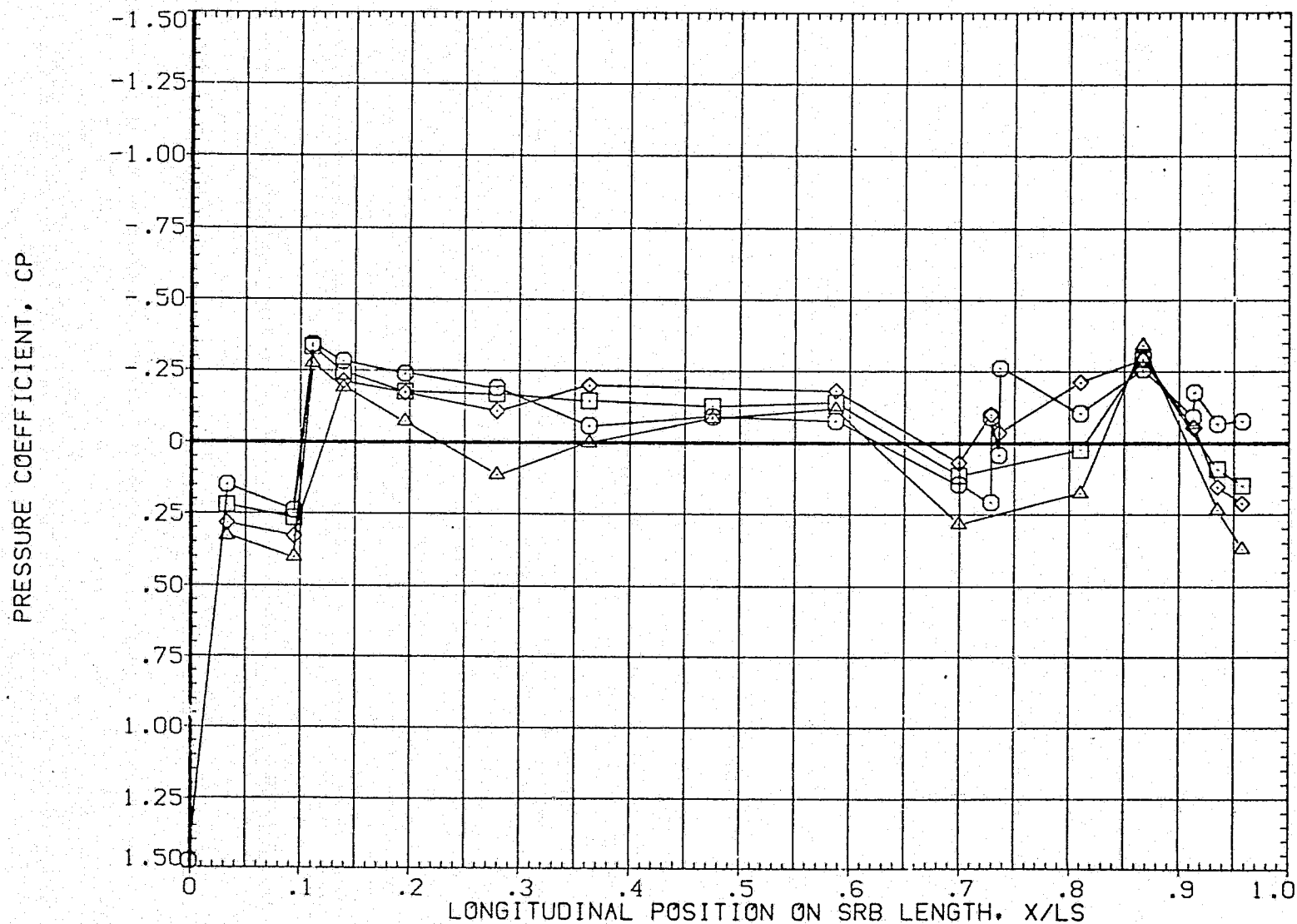


FIG. 66 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/0, SPDBRK = 0, MACH = 1.4

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER (IETS12)

SYMBOL	PHI	BETA1	ALPHAL
○	180.000	-4.000	-4.000
□	225.000		
◇	270.000		
△	315.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-18	8.000	ELV-08	.000
RUDDER	.000	SPDBRK	.000

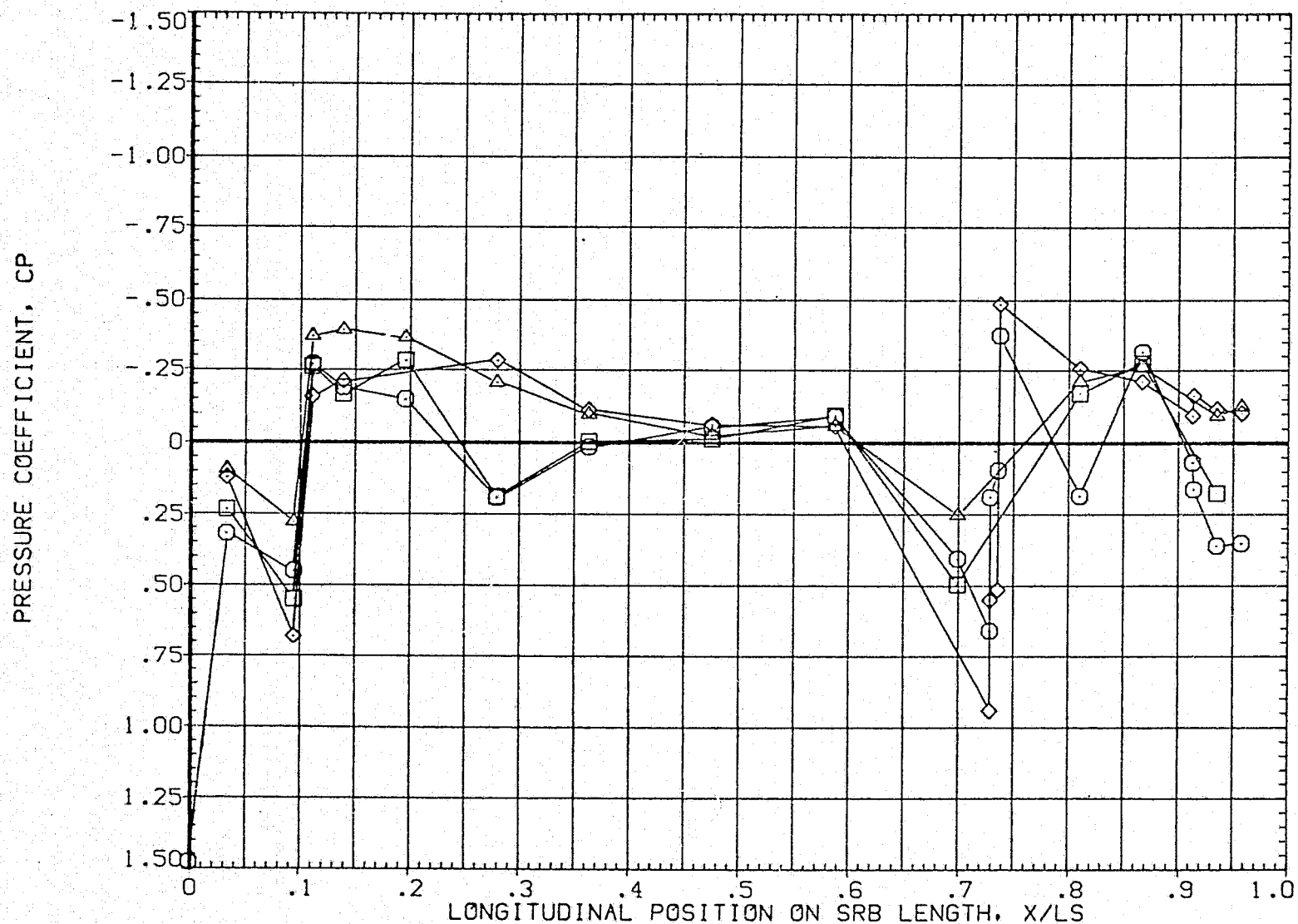


FIG. 66 SRB LONG. PRESSURE DIST. ELEVON 1/0 = 8/0, SPDBRK = 0, MACH = 1.4

SYMBOL	PHI	BETAL	ALPHAL
○	.000	.000	-4.000
□	45.000		
◇	90.000		
△	135.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-18	8.000	ELV-08	.000
RUDDER	.000	SPDBRK	.000

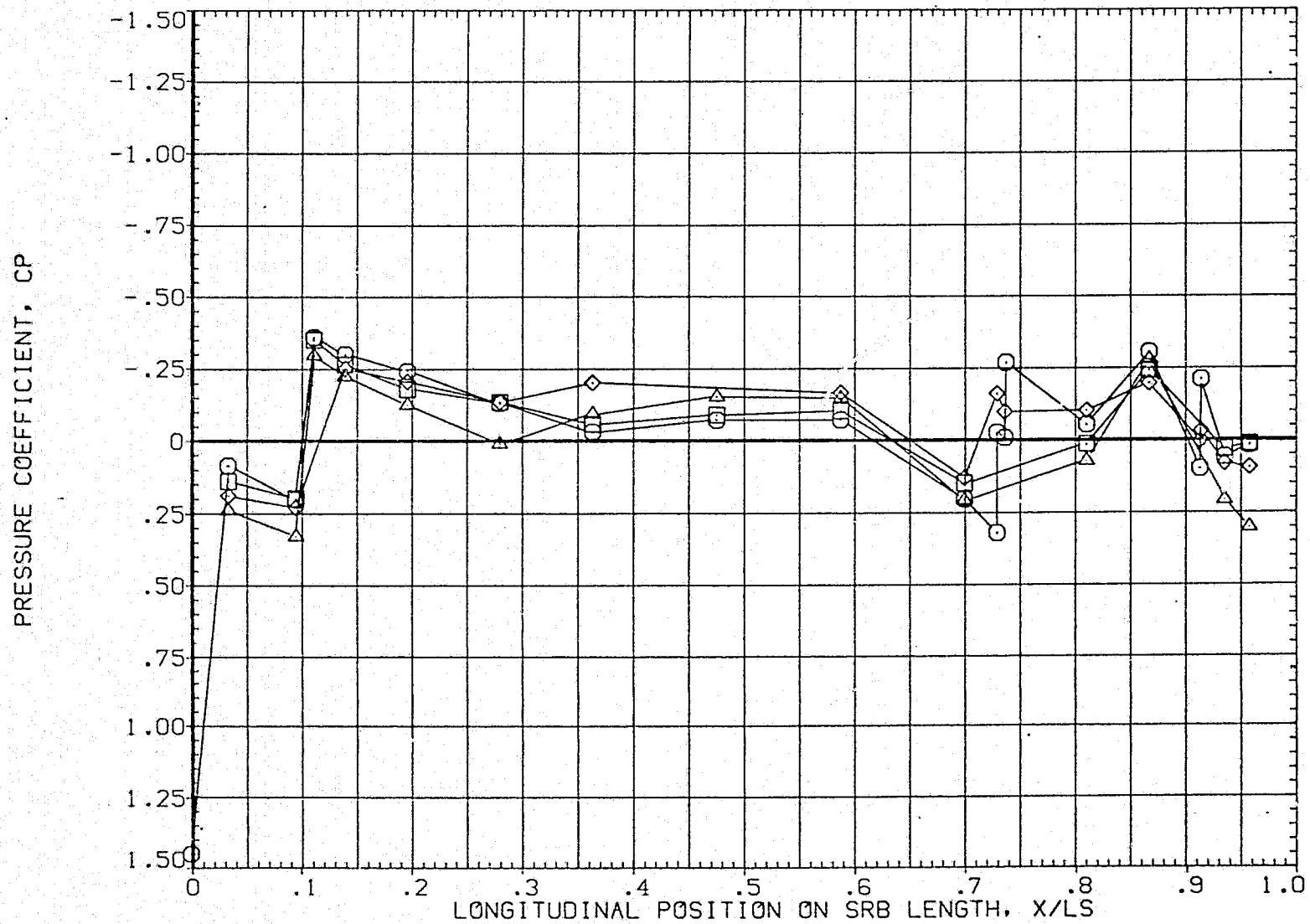


FIG. 66 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/0, SPDBRK = 0, MACH = 1.4

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER (IETS12)

SYMBOL	PHI	BETAL	ALPHAL
○	180.000	.000	-4.000
□	225.000		
◇	270.000		
△	315.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-18	8.000	ELV-08	.000
RUDDER	.000	SPDBRK	.000

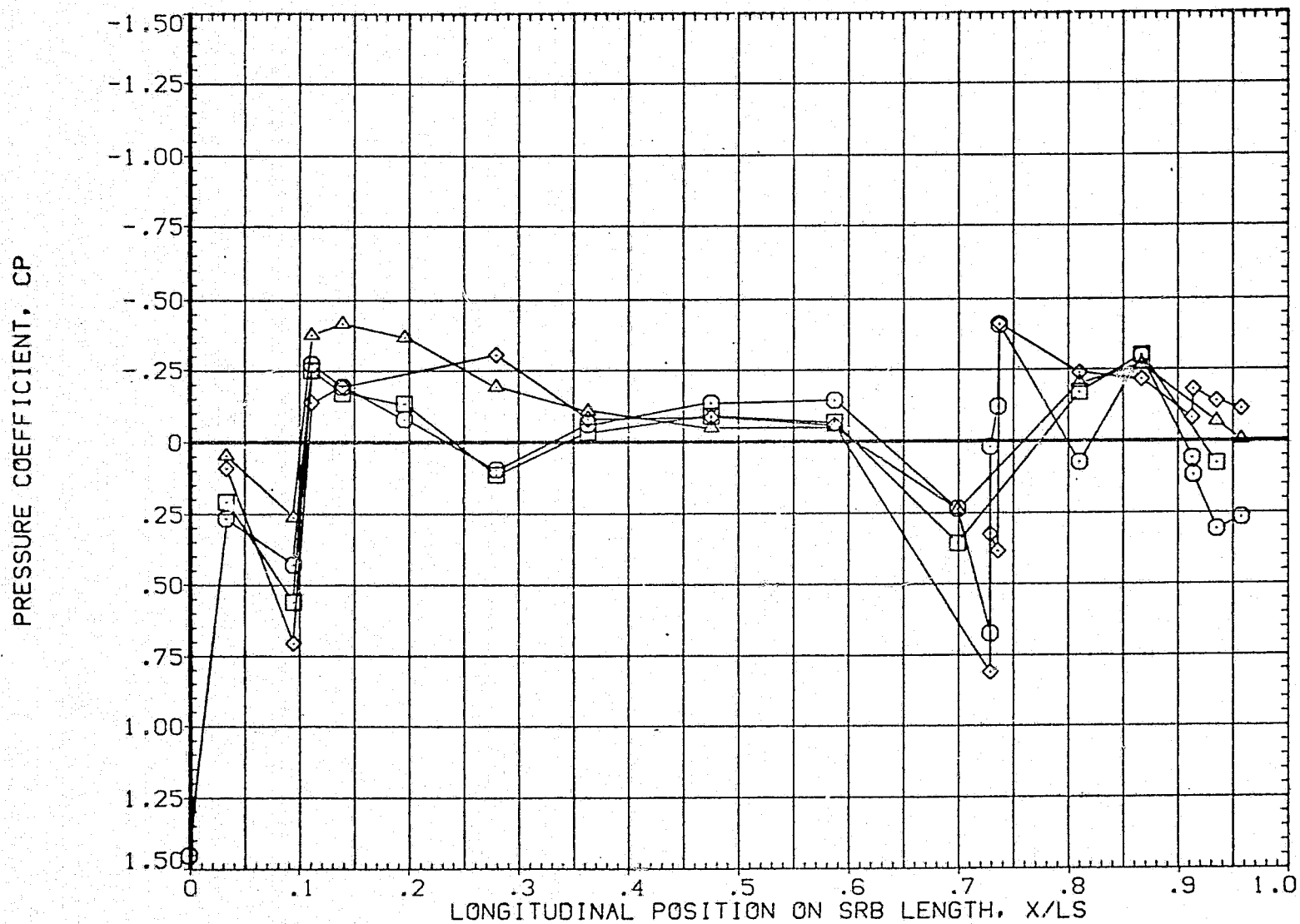


FIG. 66 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/0, SPDBRK = 0, MACH = 1.4

SYMBOL	PHI	BETAL	ALPHAL
○	.000	4.000	-4.000
□	45.000		
◇	90.000		
△	135.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-18	8.000	ELV-08	.000
RUDDER	.000	SPDBRK	.000

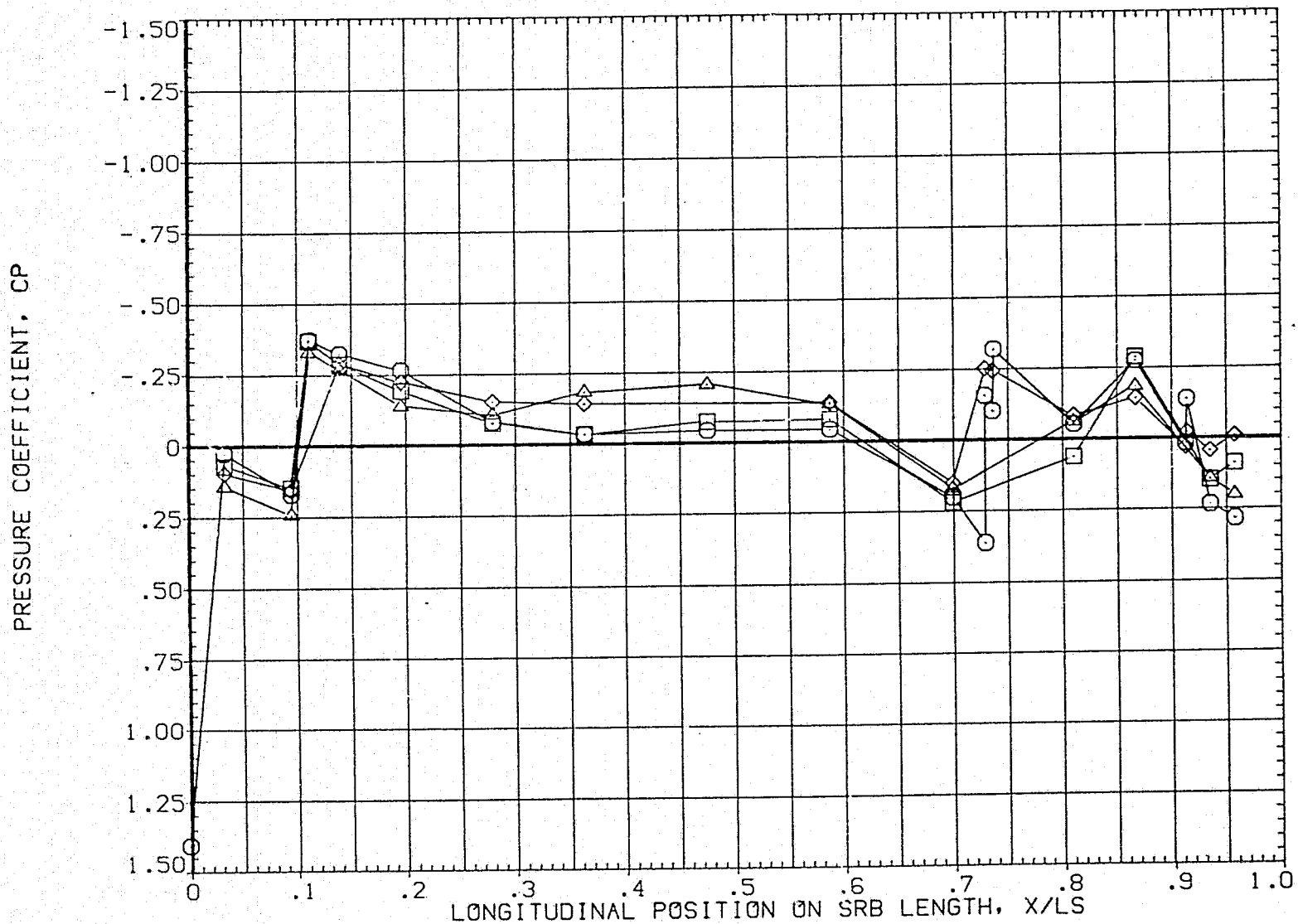


FIG. 66 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/O, SPDBRK = 0, MACH = 1.4

ARC11-019 1A81 LVAP(ELHL SEALED) SRM BOOSTER (IETS12)

SYMBOL	PHI	BETAL	ALPHAL
○	180.000	4.000	-4.000
□	225.000		
◇	270.000		
△	315.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-IB	8.000	ELV-OB	.000
RUDDER	.000	SPDBRK	.000

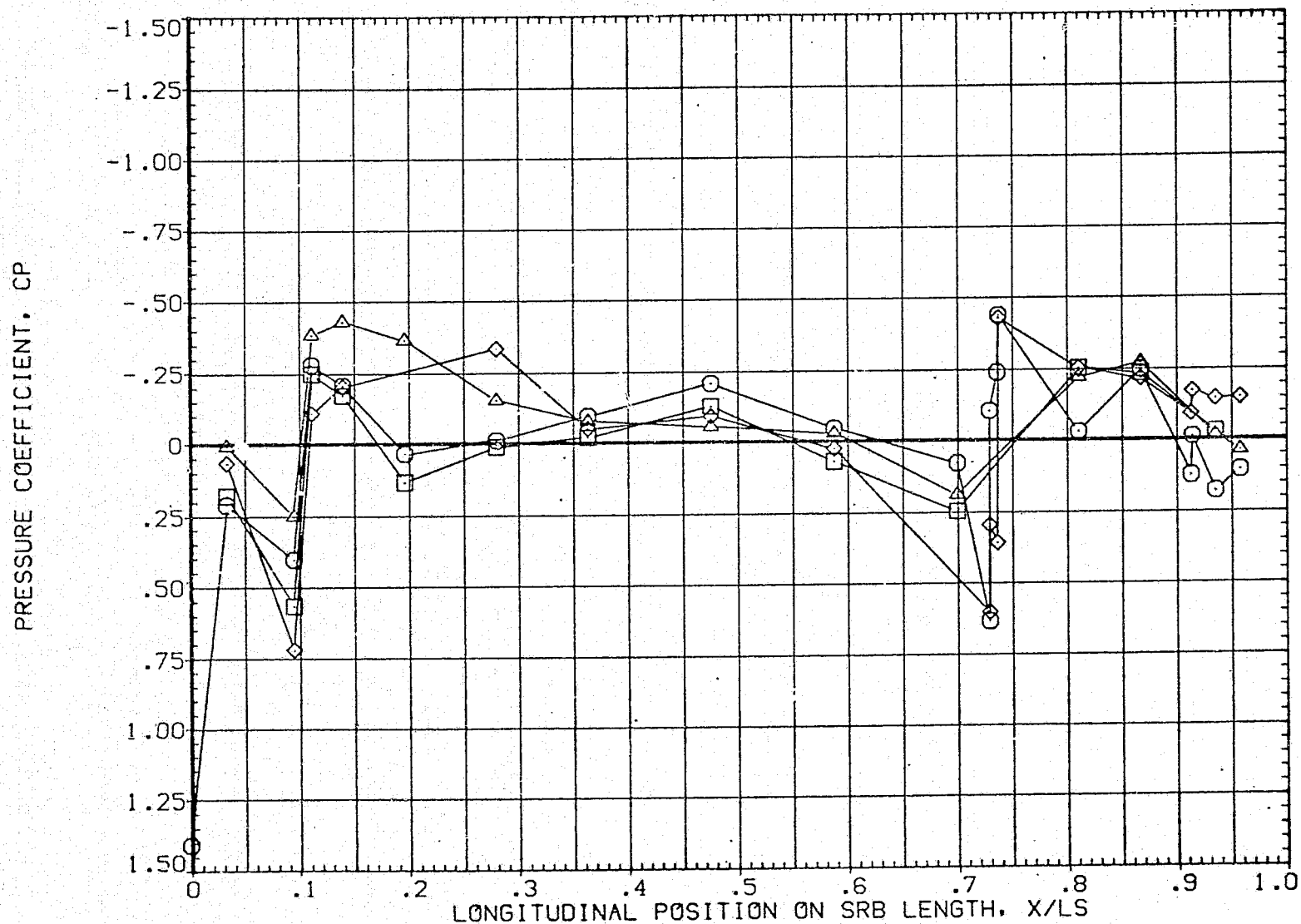


FIG. 66 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/O, SPDBRK = 0, MACH = 1.4

SYMBOL	PHI	BETAL	ALPHAL
○	.000	-4.000	.000
□	45.000		
◇	90.000		
△	135.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-18	8.000	ELV-08	.000
RUDDER	.000	SPDBRK	.000

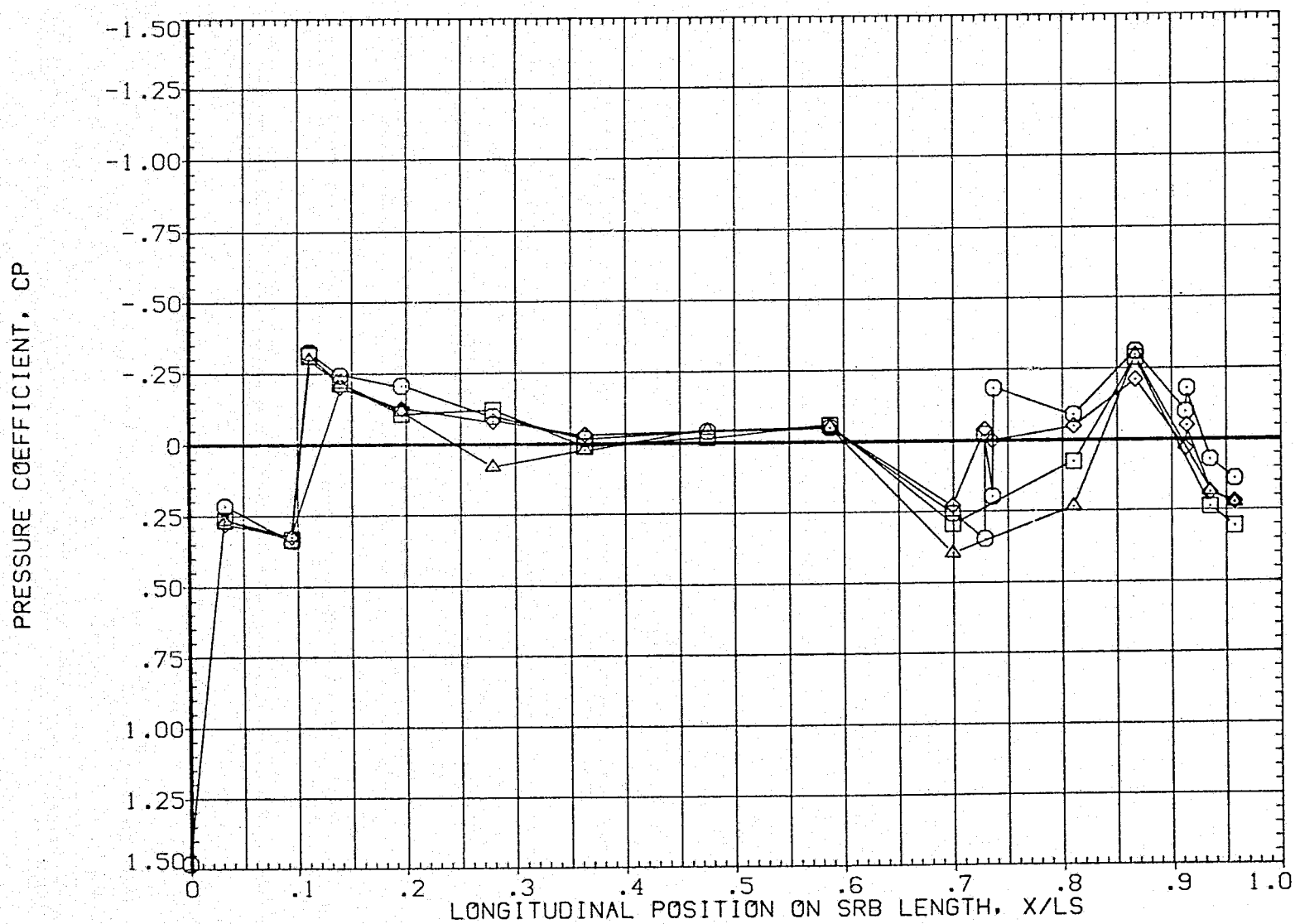


FIG. 66 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/0, SPDBRK = 0, MACH = 1.4

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER (IETS12)

SYMBOL	PHI	BETAL	ALPHAL
○	180.000	-4.000	.000
□	225.000		
◇	270.000		
△	315.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-IB	8.000	ELV-OB	.000
RUDDER	.000	SPDBRK	.000

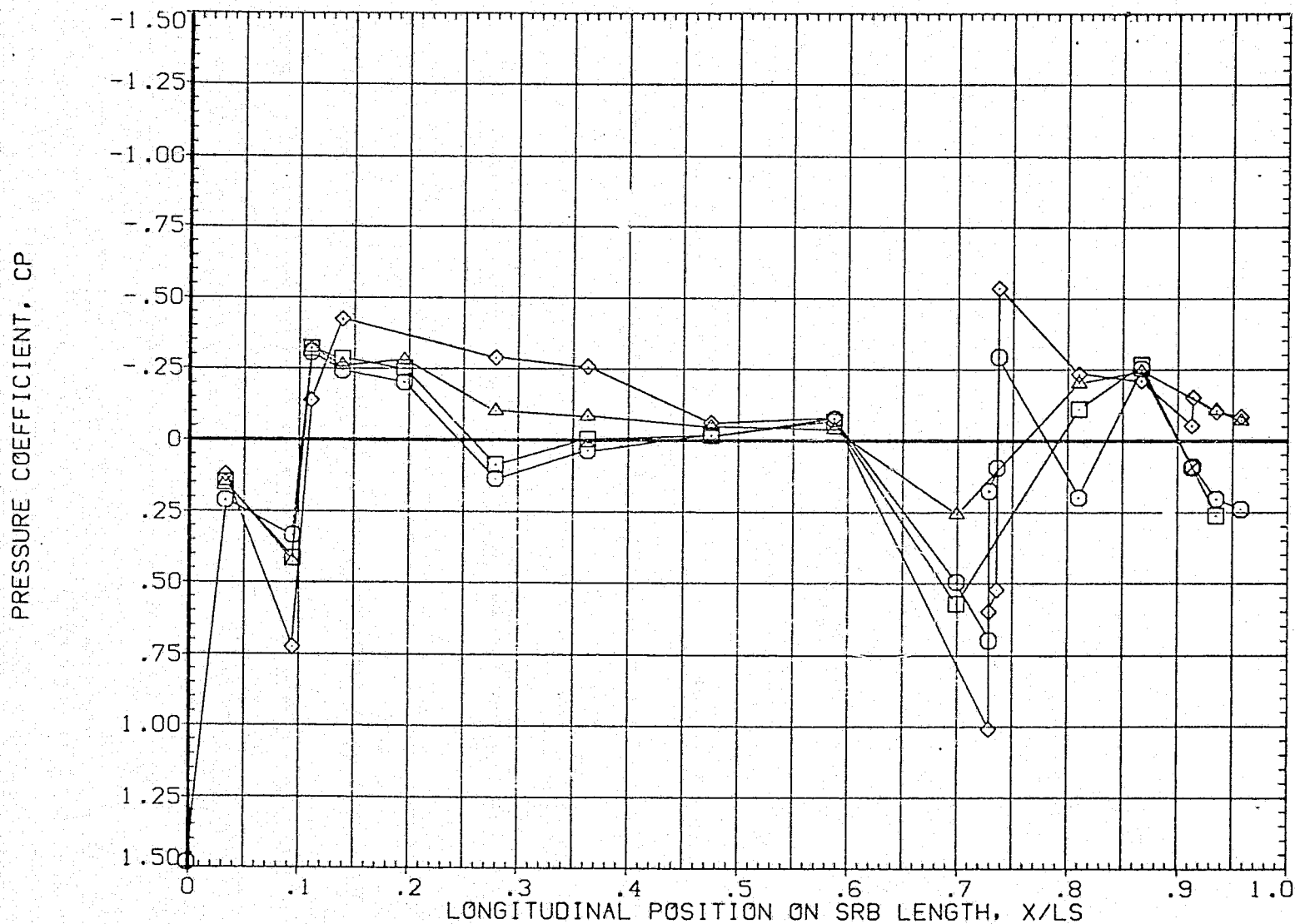


FIG. 66 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/0, SPDBRK = 0, MACH = 1.4

SYMBOL	PHI	BETAL	ALPHAL
○	.000	.000	.000
□	45.000		
◇	90.000		
△	135.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-IB	8.000	ELV-OB	.000
RUDDER	.000	SPDBRK	.000

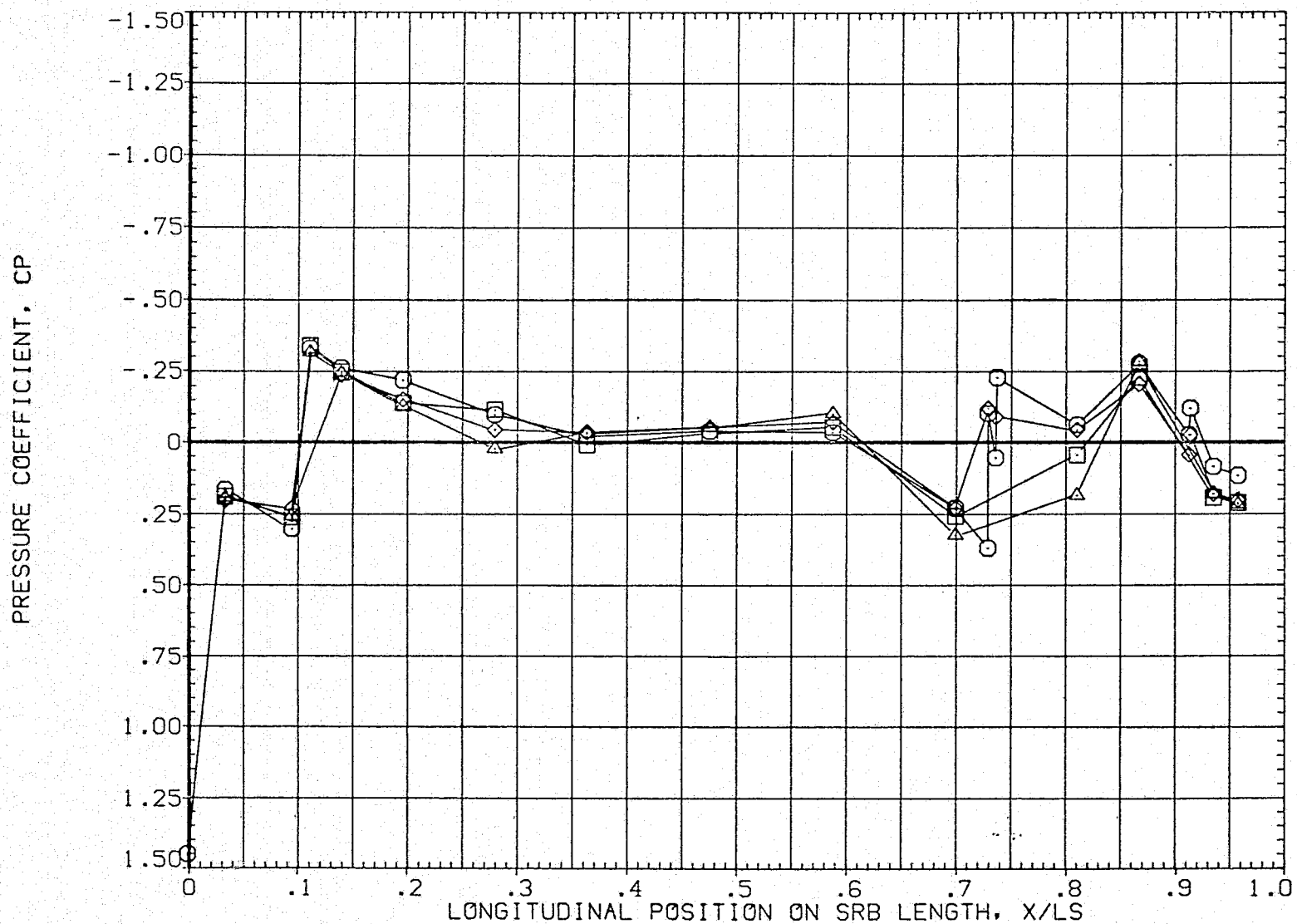


FIG. 66 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/O, SPDBRK = 0, MACH = 1.4

ARC11-019 1A81 LVAP(ELHL SEALED) SRM BOOSTER (IETS12)

SYMBOL	PHI	BETAL	ALPHAL
○	180.000		
□	225.000	.000	.000
◇	270.000		
△	315.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-1B	8.000	ELV-0B	.000
RUDDER	.000	SPDBRK	.000

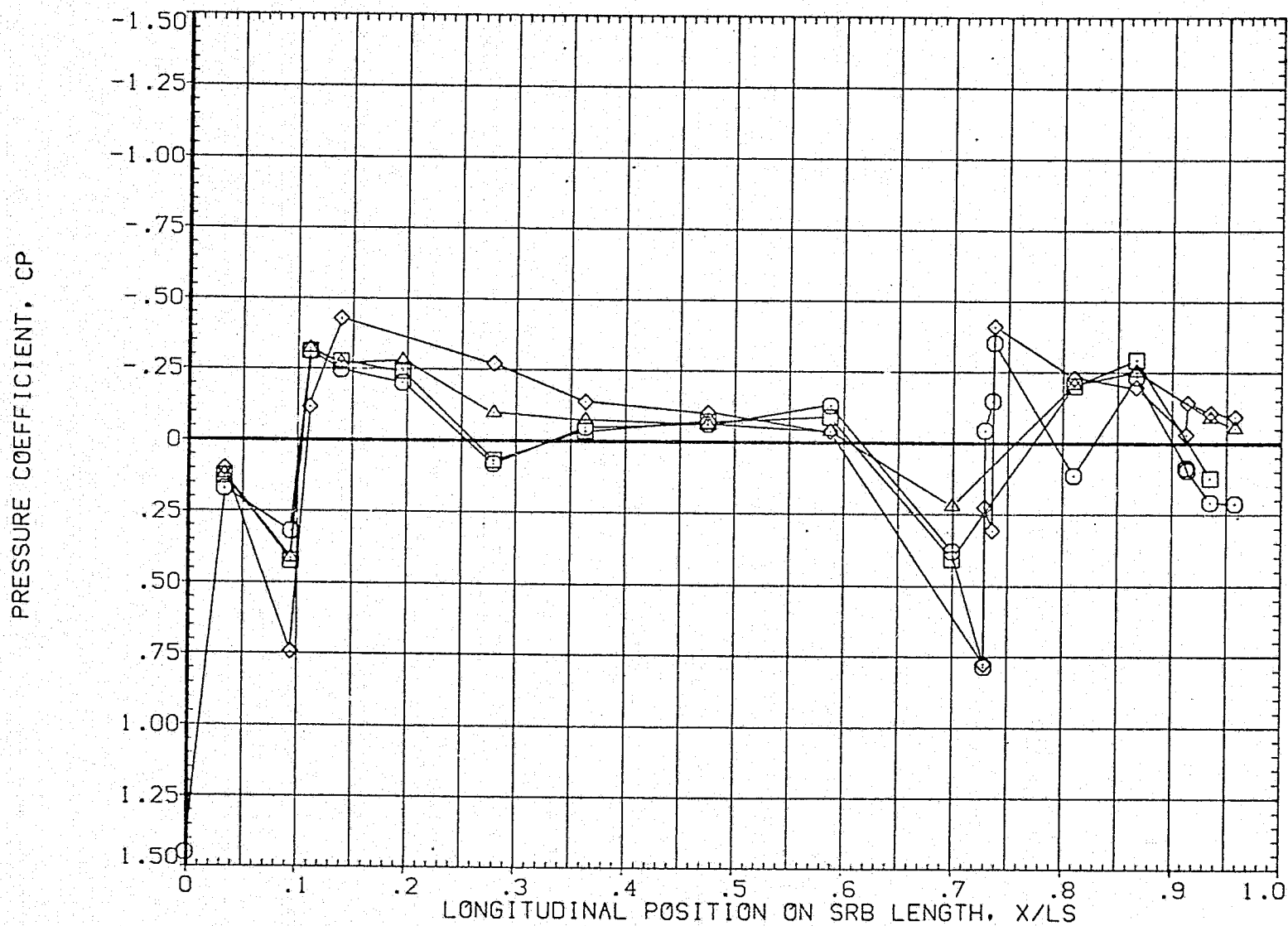


FIG. 66 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/O, SPDBRK = 0, MACH = 1.4

SYMBOL	PHI	BETAL	ALPHAL
○	.000	4.000	.000
□	45.000		
◇	90.000		
△	135.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-IB	8.000	ELV-OB	.000
RUDDER	.000	SPDBRK	.000

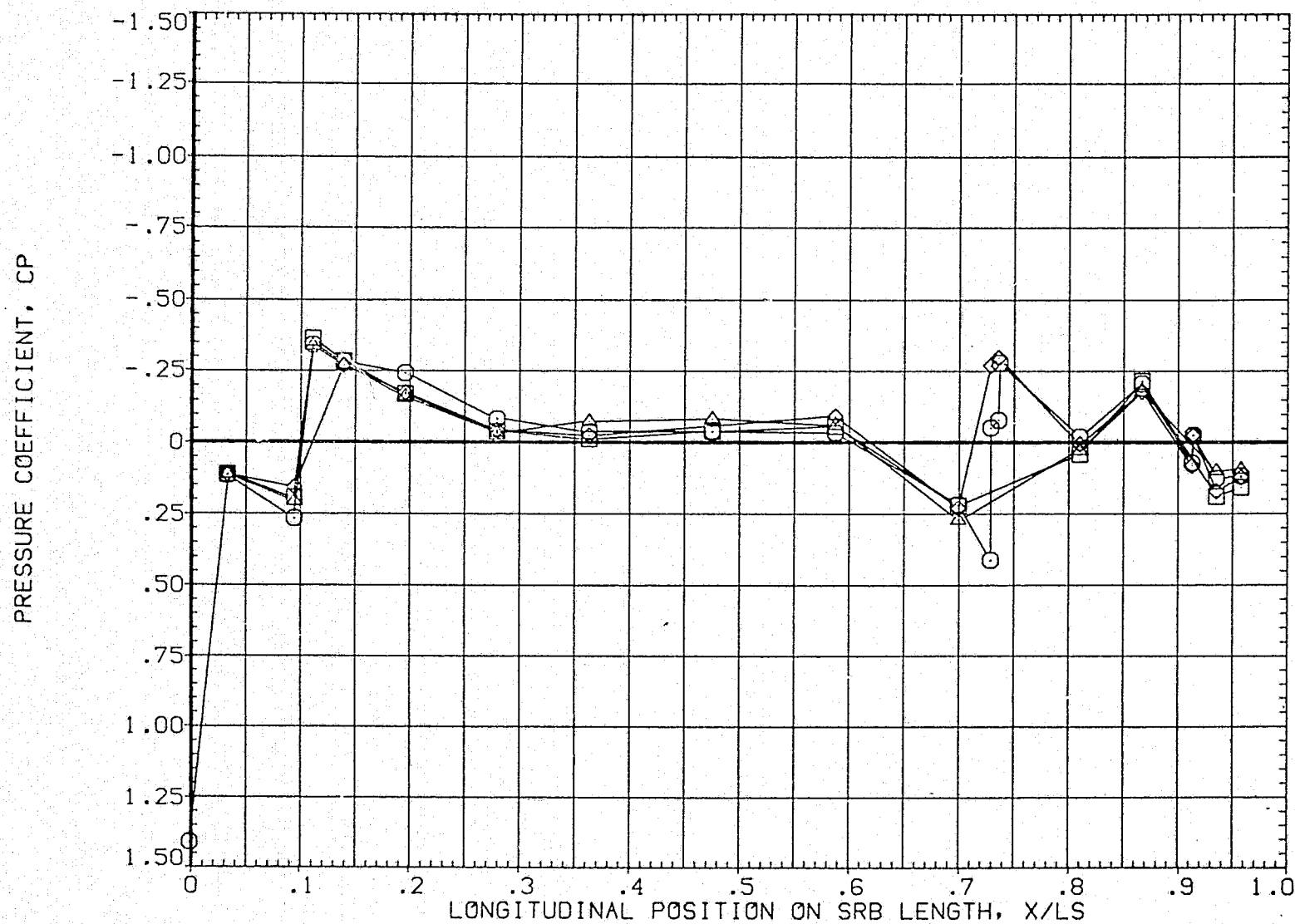


FIG. 66 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/0, SPDBRK = 0, MACH = 1.4

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER (IETS12)

SYMBOL	PHI	BETAL	ALPHAL
○	180.000	4.000	.000
□	225.000		
◇	270.000		
△	315.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-IB	8.000	ELV-OB	.000
RUDDER	.000	SPDBRK	.000

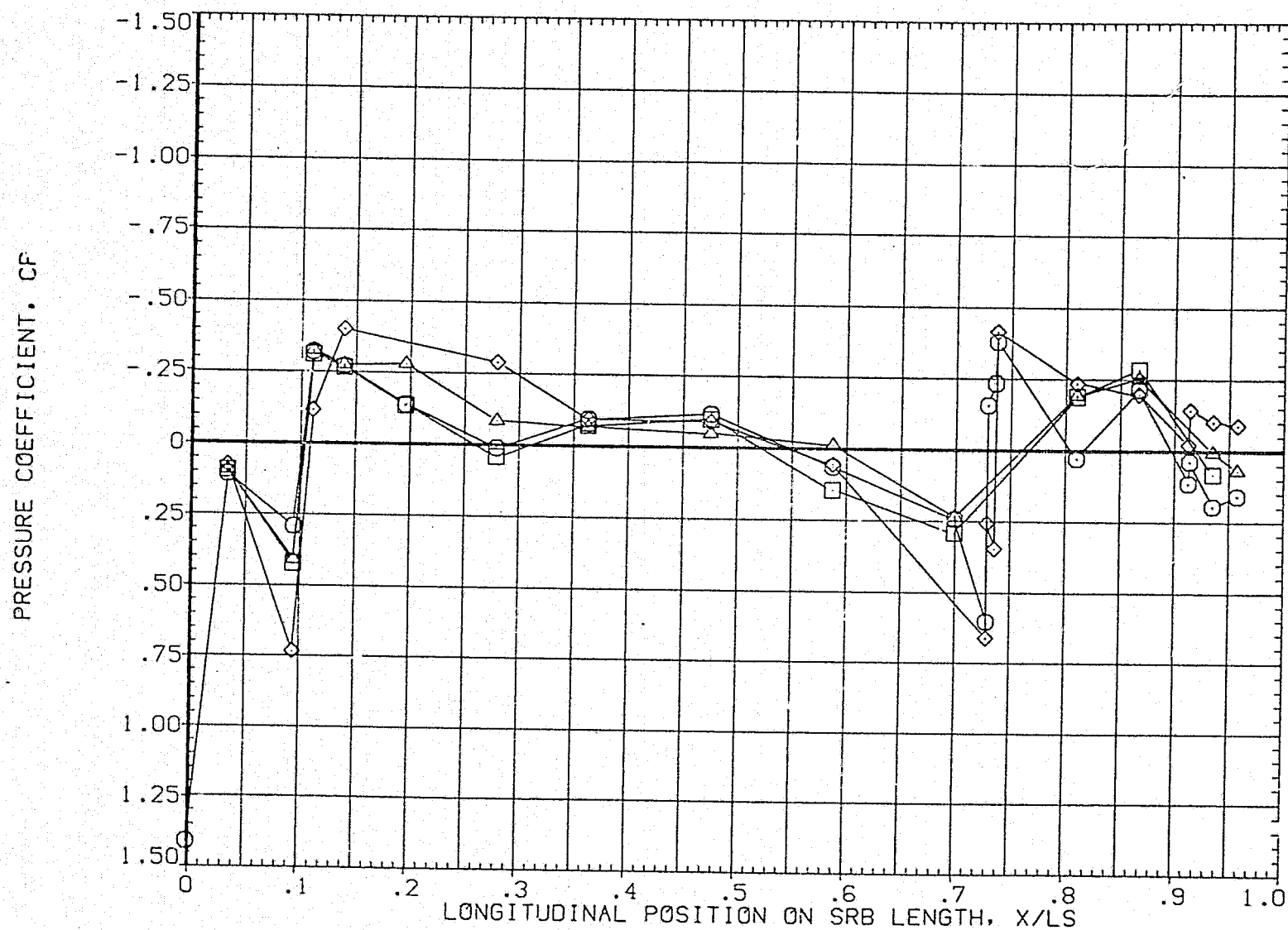


FIG. 66 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/O, SPDBRK = 0, MACH = 1.4

SYMBOL	PHI	BETAL	ALPHAL	MACH	PARAMETRIC VALUES	RN/FT	2.250
○	.000	-4.000	4.000	ELV-1B	1.400	8.000	.000
□	45.000			RUDDER	.000	SPDBRK	.000
◇	90.000						
△	135.000						

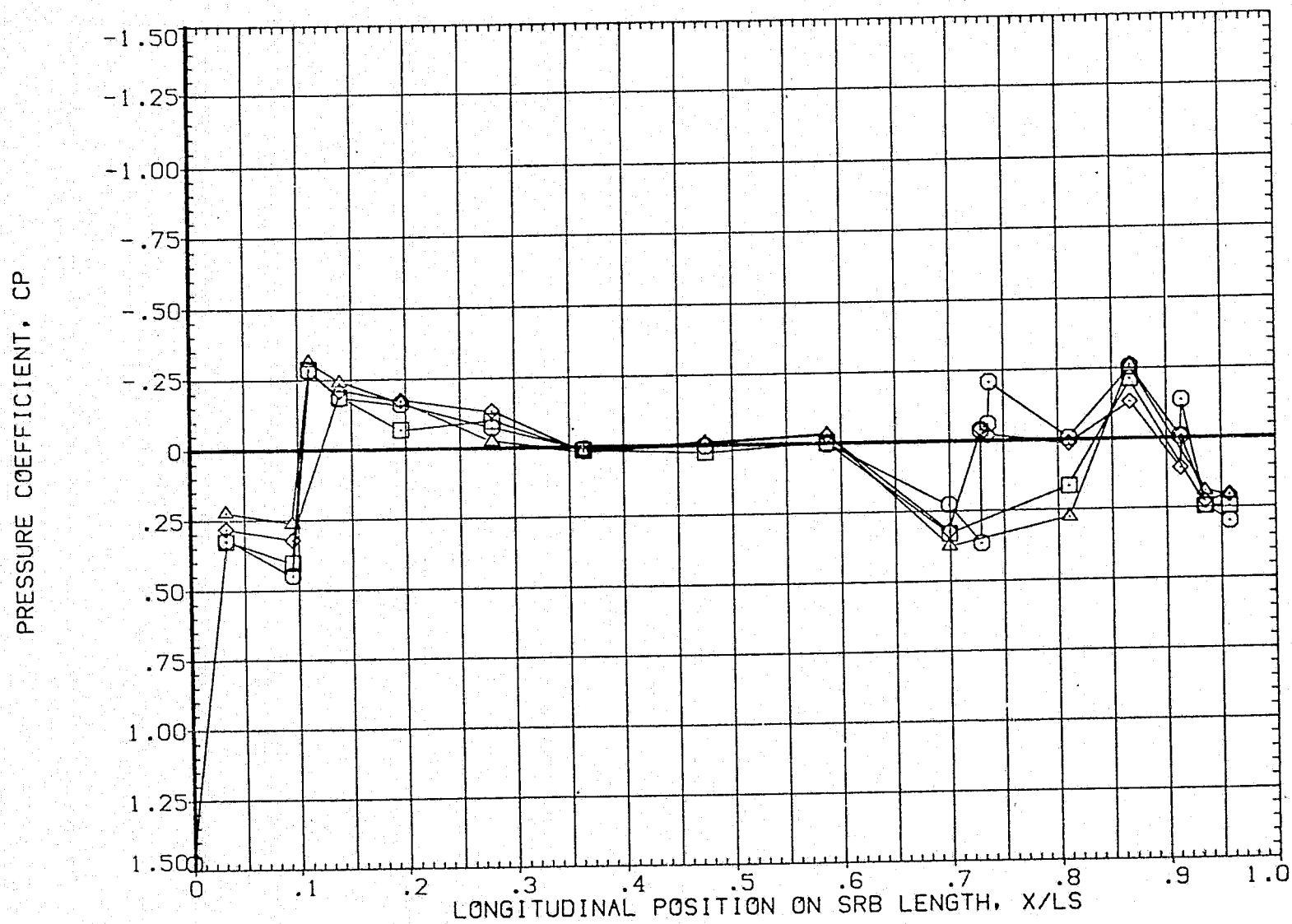


FIG. 66 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/0, SPDBRK = 0, MACH = 1.4

ARC11-019 1A81 LVAP(ELHL SEALED) SRM BOOSTER (IETS12)

SYMBOL	PHI	BETAL	ALPHAL
○	180.000	-4.000	4.000
□	225.000		
◇	270.000		
△	315.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-1B	8.000	ELV-0B	.000
RUDDER	.000	SPDBRK	.000

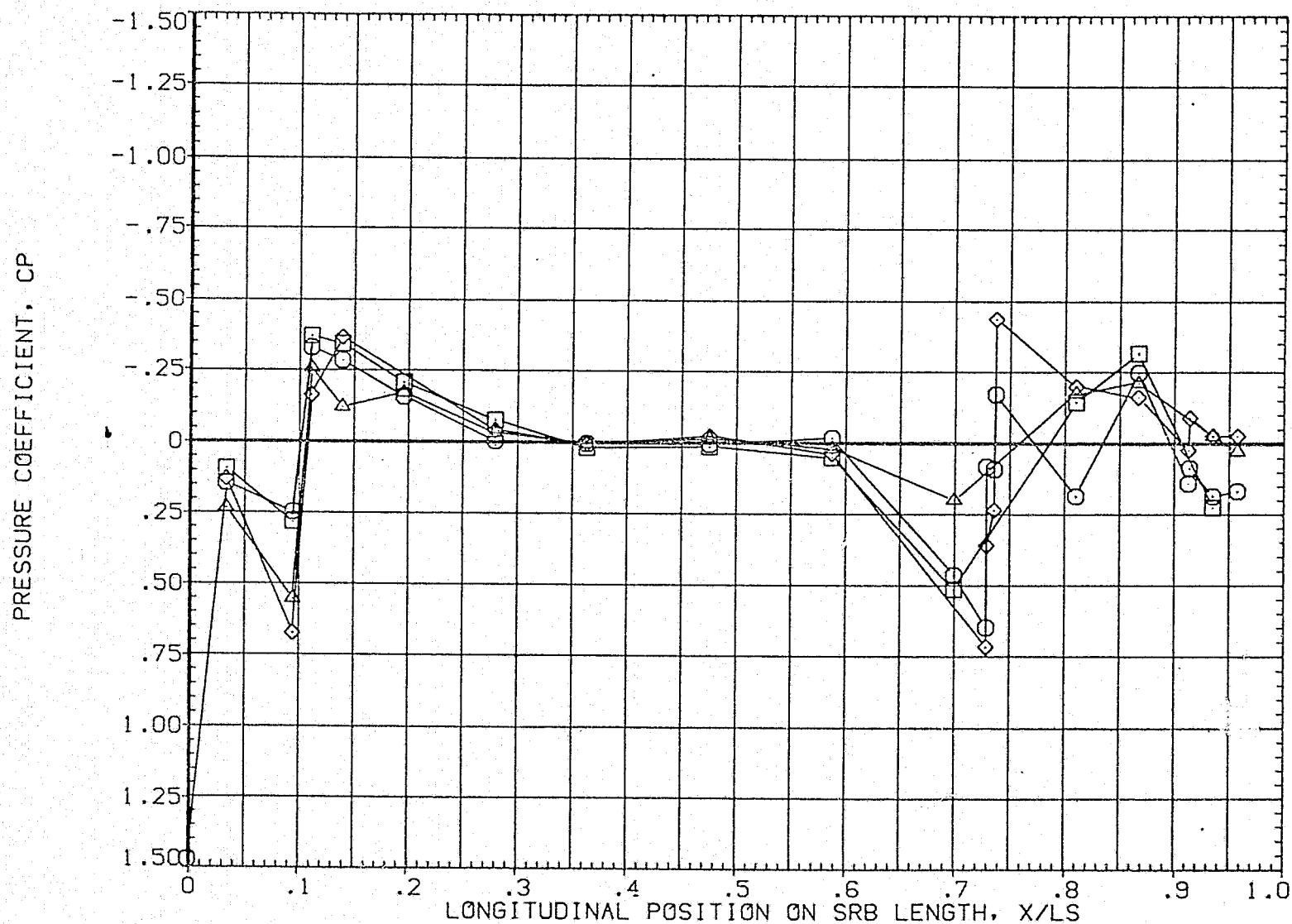


FIG. 66 SRB LONG. PRESSURE DIST. ELEVON 1/0 = 8/0, SPDBRK = 0, MACH = 1.4

SYMBOL	PHI	BETAL	ALPHAL
○	.000	.000	4.000
□	45.000		
◇	90.000		
△	135.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-1B	8.000	ELV-0B	.000
RUDDER	.000	SPDBRK	.000

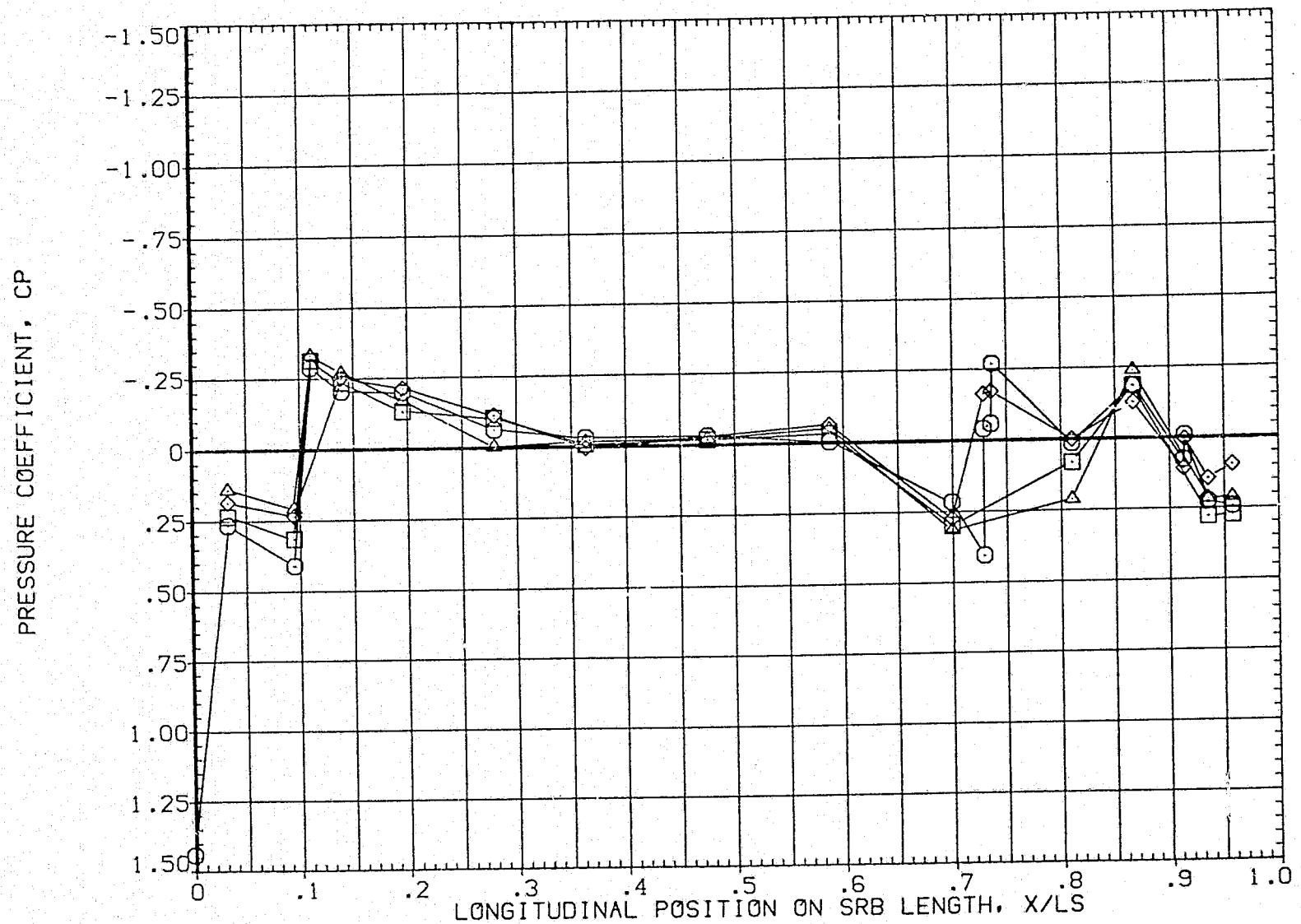


FIG. 66 SRB LONG. PRESSURE DIST. ELEVON 1/0 = 8/0, SPDBRK = 0, MACH = 1.4

ARC11-019 1A81 LVAP(ELHL SEALED) SRM BOOSTER (IETS12)

SYMBOL	PHI	BETAL	ALPHAL
○	180.000	.000	4.000
□	225.000		
◇	270.000		
△	315.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-1B	8.000	ELV-0B	.000
RUDDER	.000	SPDBRK	.000

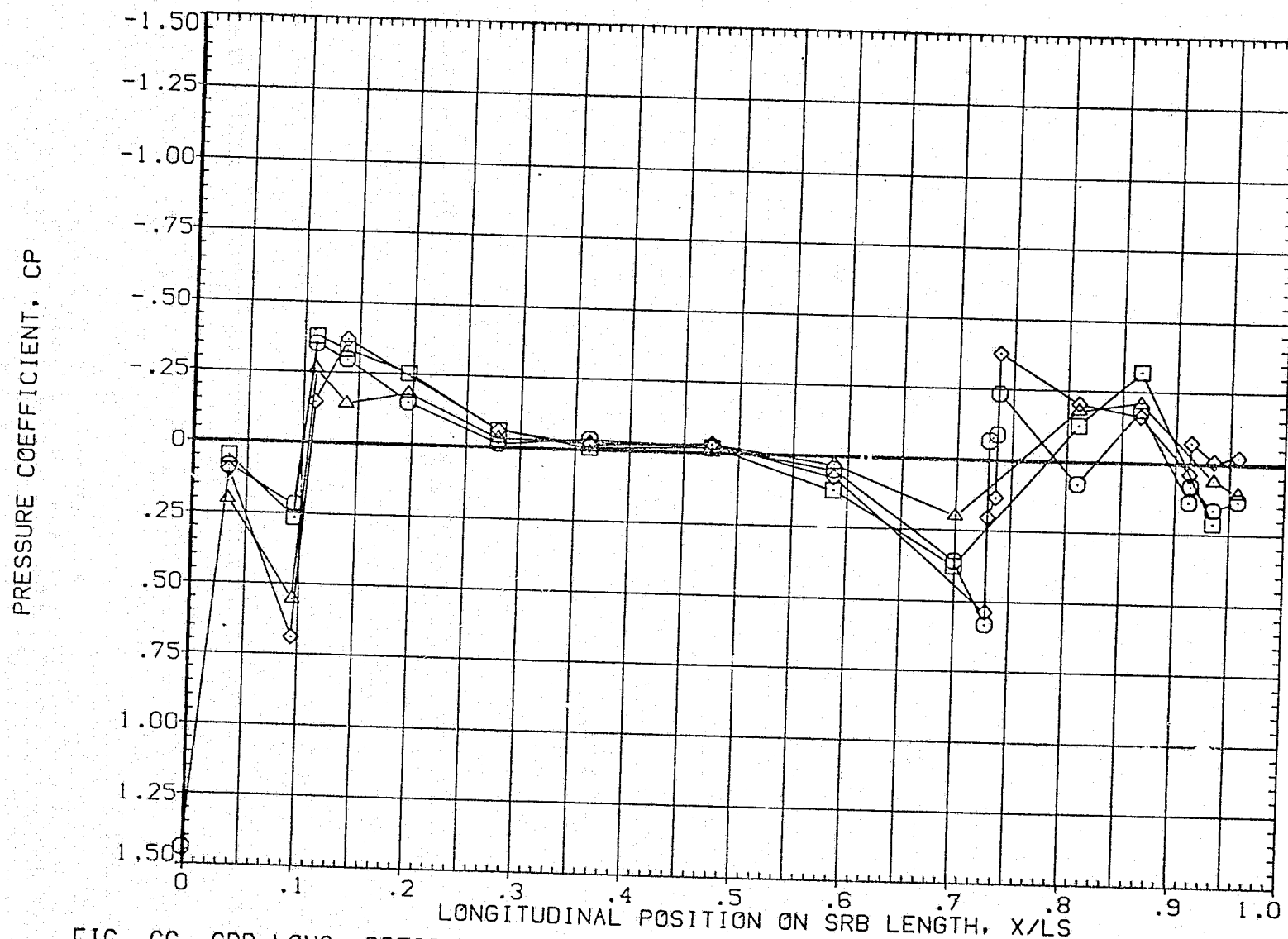


FIG. 66 SRB LONG. PRESSURE DIST. ELEVON 1/0 = 8/0, SPDBRK = 0, MACH = 1.4

ARC11-019 1A81 LVAP(ELHL SEALED) SRM BOOSTER (IETS12)

SYMBOL	PHI	BETAL	ALPHAL
○	.000	4.000	4.000
□	45.000		
◇	90.000		
△	135.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-1B	8.000	ELV-0B	.000
RUDDER	.000	SPDBRK	.000

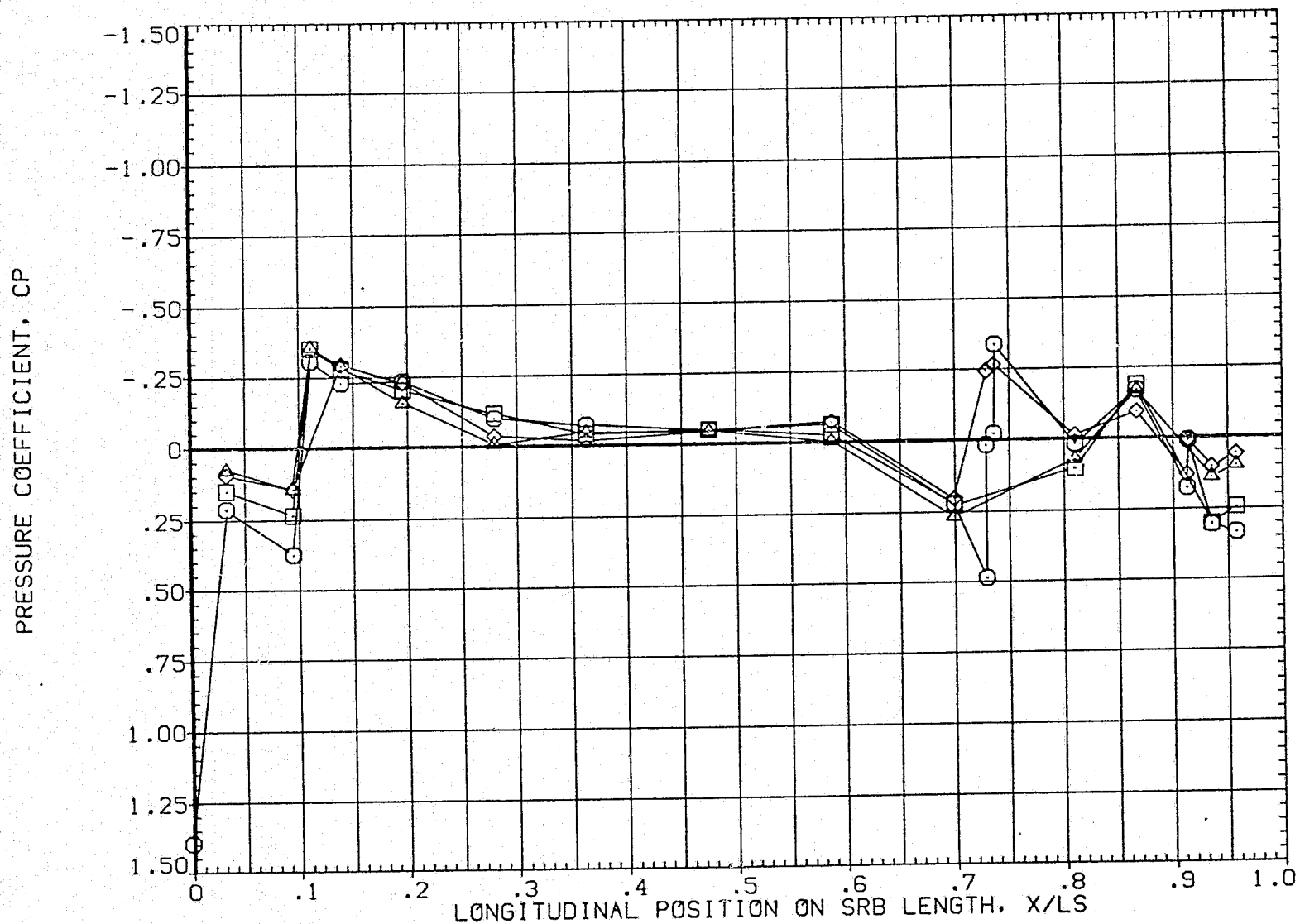


FIG. 66 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/0, SPDBRK = 0, MACH = 1.4

ARC11-019 IA81 LVAP(ELHL SEALED) SRM BOOSTER (IETS12)

SYMBOL	PHI	BETAL	ALPHAL
○	180.000	4.000	4.000
□	225.000		
◇	270.000		
△	315.000		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-1B	8.000	ELV-0B	.000
RUDDER	.000	SPDBRK	.000

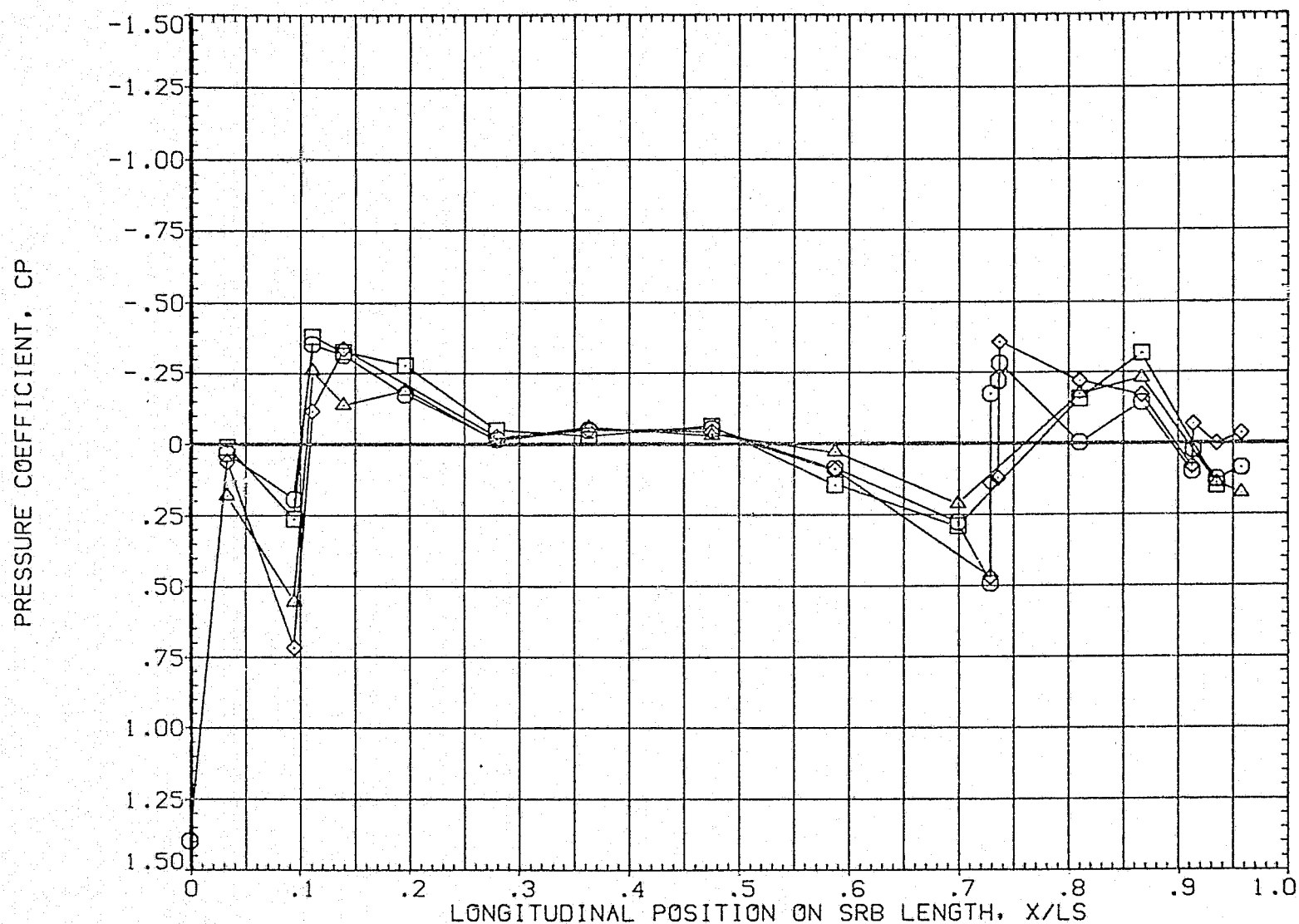


FIG. 66 SRB LONG. PRESSURE DIST. ELEVON I/O = 8/O, SPDBRK = 0, MACH = 1.4

ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT VERTICAL (IETVOG)

SYMBOL	Z/BV	BETA0	ALPHA0
○	.158	-4.000	-4.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-IB	8.000	ELV-CB	4.000
RUDDER	.000	SPDBRK	.000

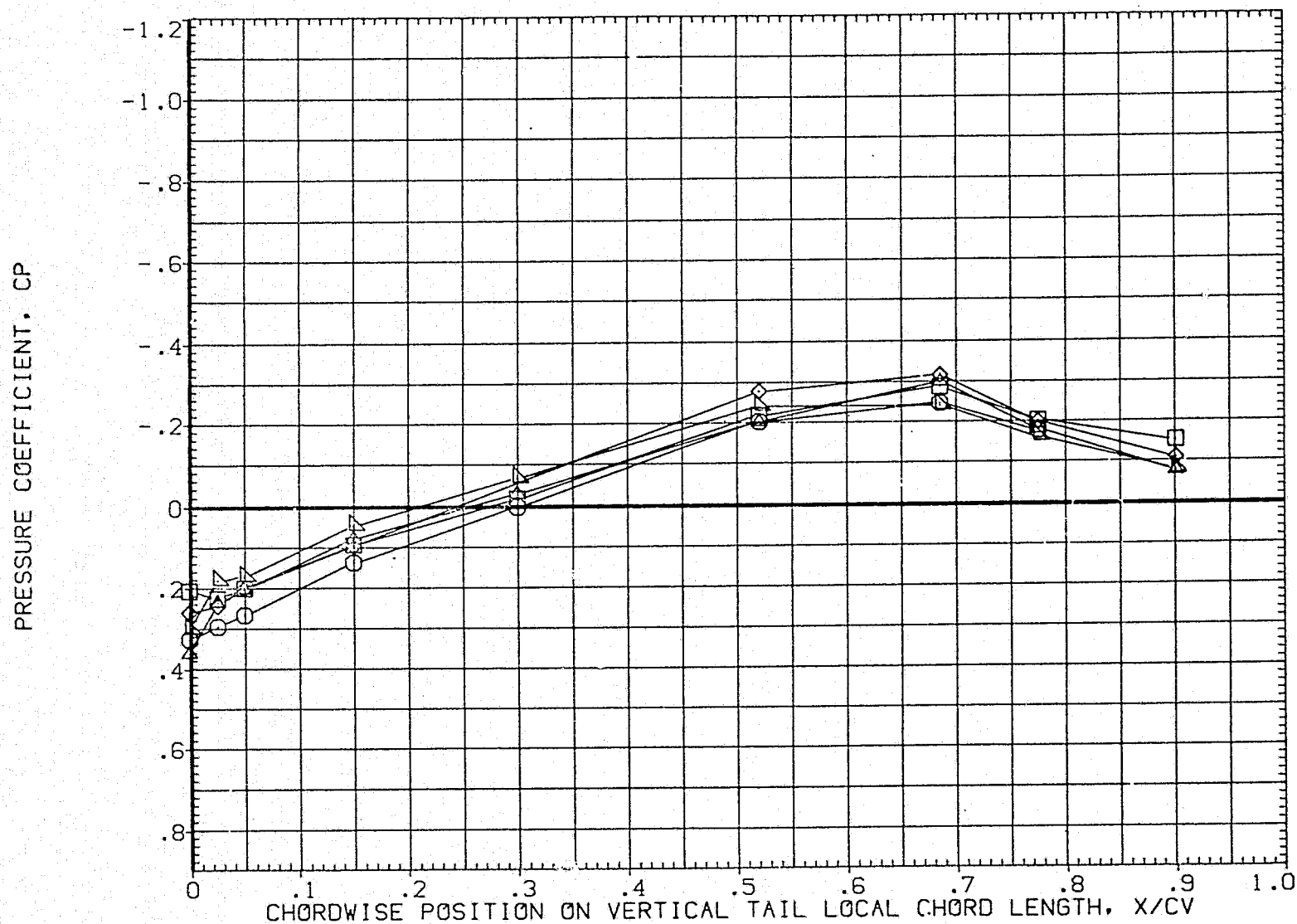


FIG. 67 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=8/4, SPDBRK=0, MACH=0.6

ARC11-019 IA81 LVAP(ELHL UNSEALED) LEFT VERTICAL (IETV06)

SYMBOL	Z/BV	BETA0	ALPHA0
○	.158	.000	-4.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

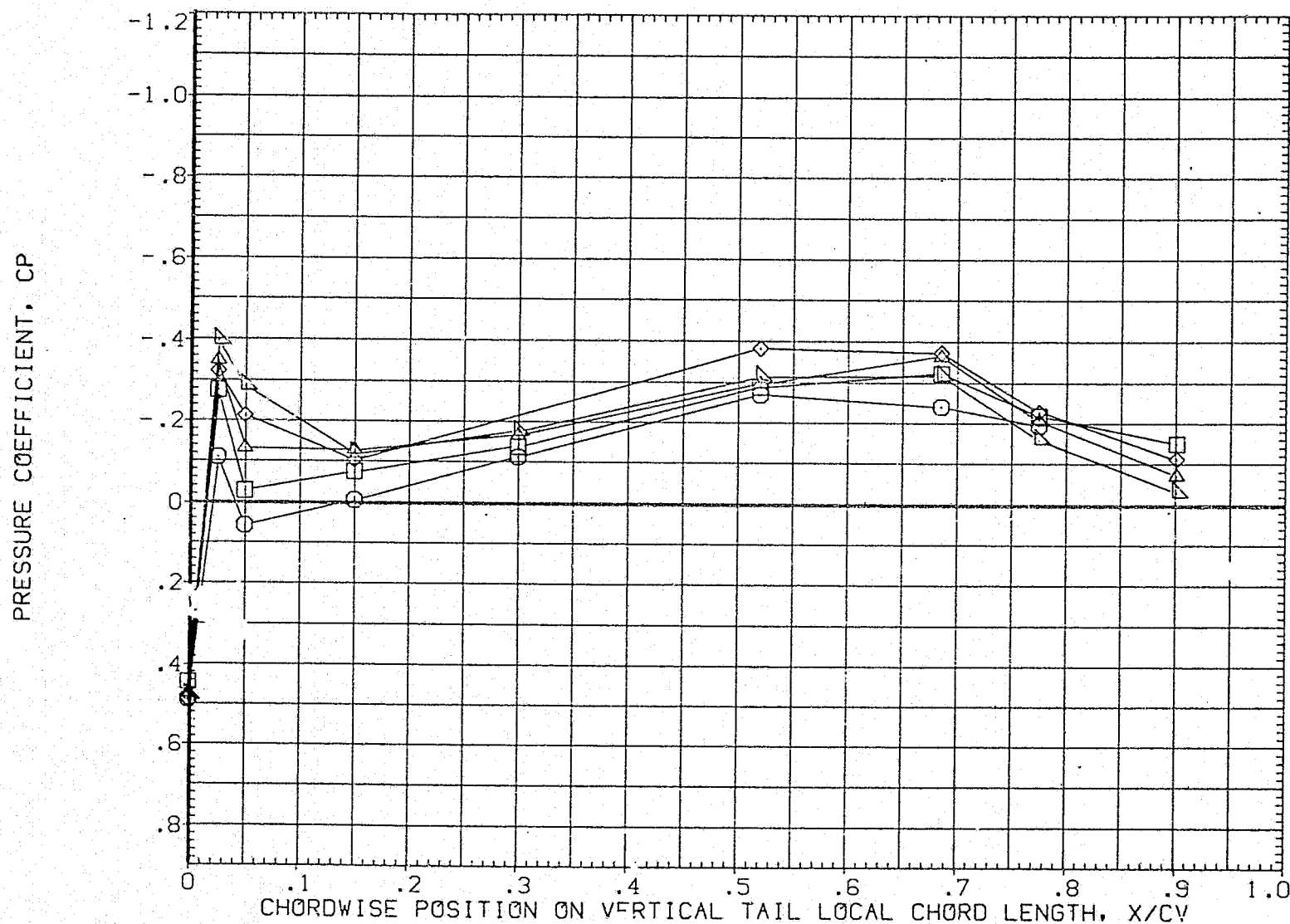


FIG. 67 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=8/4, SPDBRK=0, MACH=0.6

ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT VERTICAL (IETV06)

SYMBOL	Z/BV	BETA0	ALPHA0
○	.158	4.000	-4.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

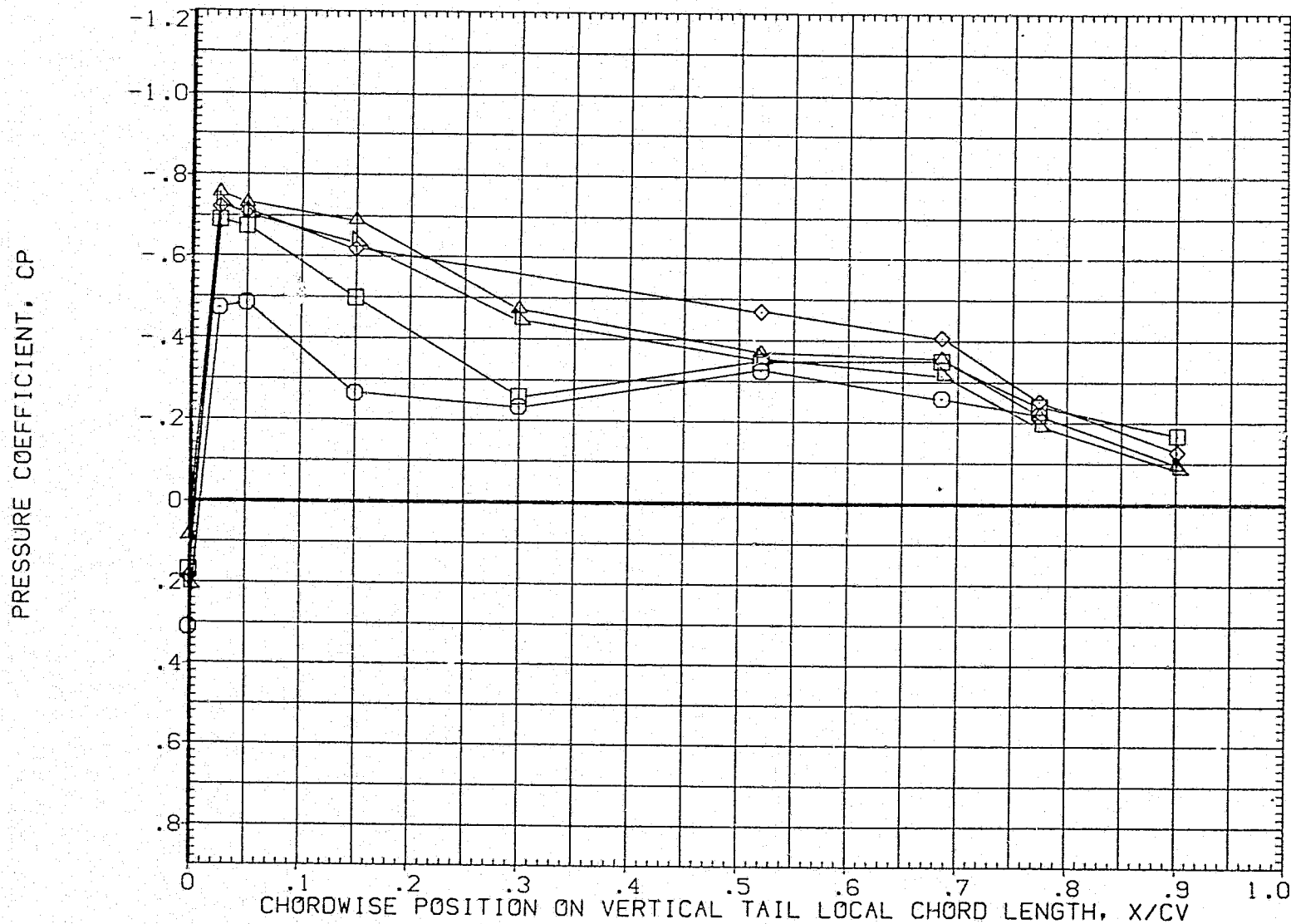


FIG. 67 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=8/4, SPDBRK=0, MACH=0.6

ARC11-019 IA81 LVAP(ELHL UNSEALD) LEFT VERTICAL (IETV06)

SYMBOL	Z/BV	BETA0	ALPHA0
○	.158	-4.000	.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-IB	8.000	ELV-GB	4.000
RUDDER	.000	SPDBRK	.000

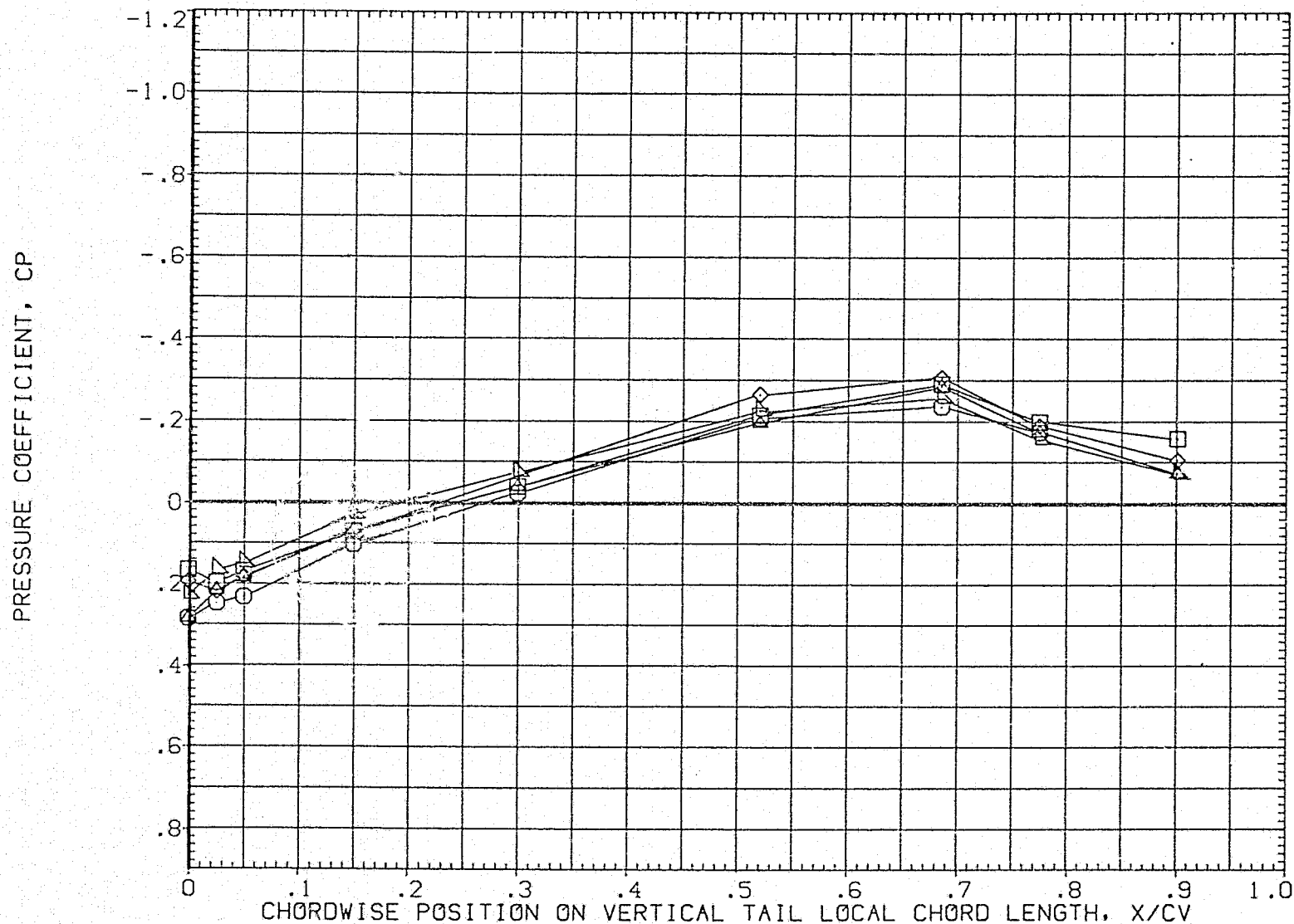


FIG. 67 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON 1/0=8/4, SPDBRK=0, MACH=0.6

ARC11-019 IA81 LVAP(ELHL UNSEALD) LEFT VERTICAL (IETV06)

SYMBOL	Z/BV	BETA0	ALPHA0
○	.158	.000	.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

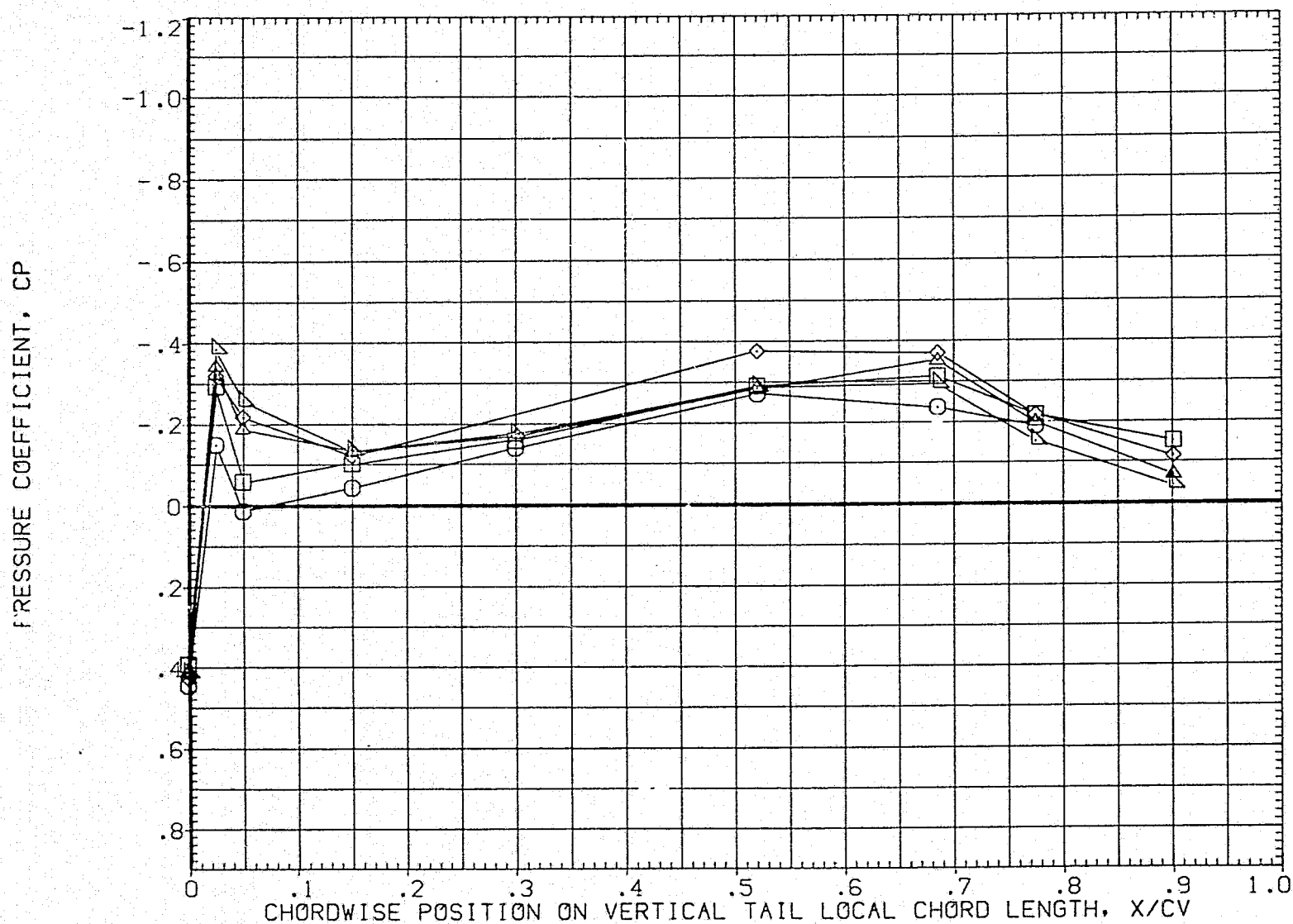


FIG. 67 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=8/4, SPDBRK=0, MACH=0.6

ARC11-019 IA81 LVAP(ELHL UNSEALD) LEFT VERTICAL (IETV06)

SYMBOL	Z/BV	BETAU	ALPHA0
○	.158	4.000	.000
◇	.317		
□	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

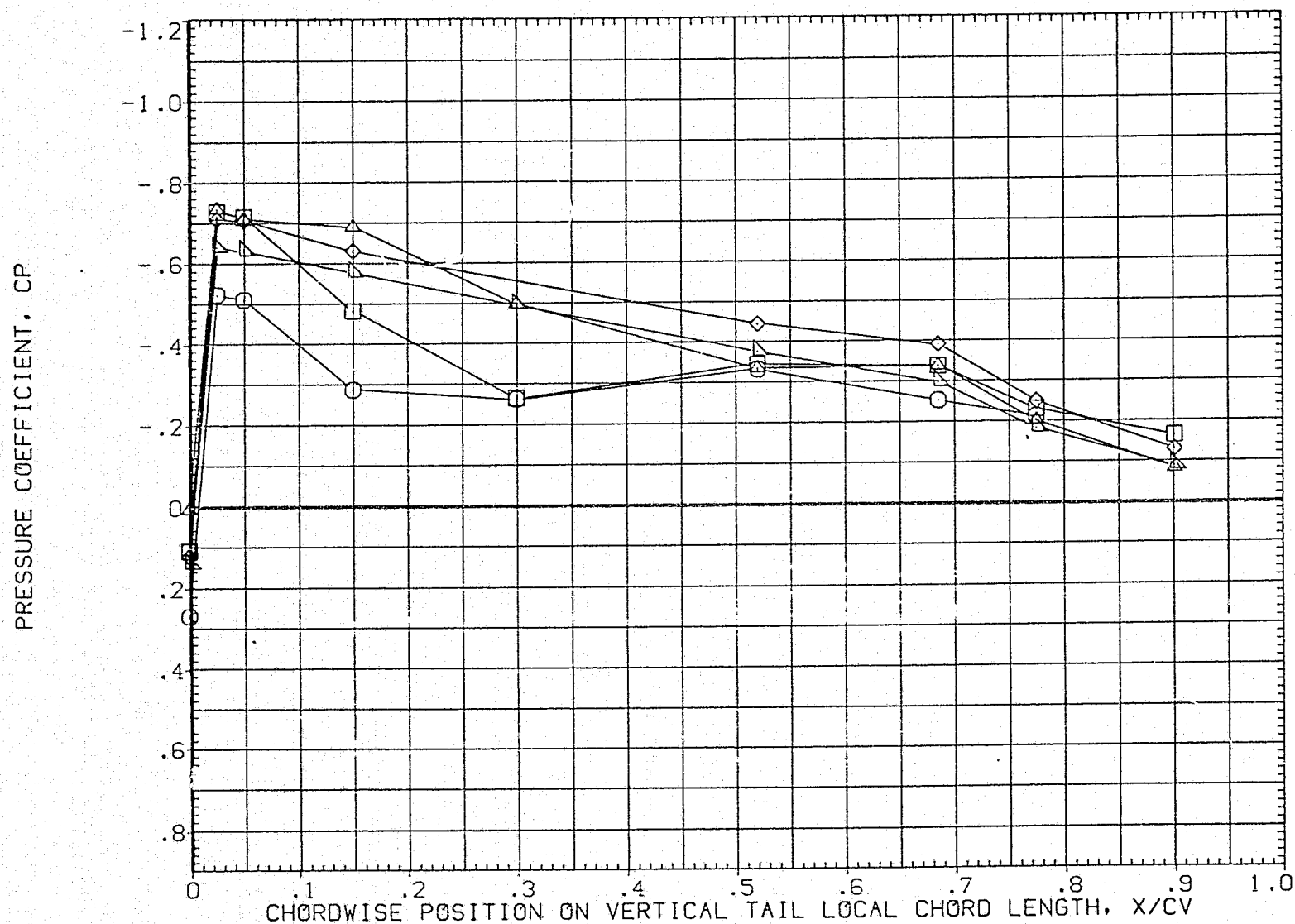


FIG. 67 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=8/4, SPDBRK=0, MACH=0.6

ARC11-019 IA81 LVAP(ELHL UNSEALD) LEFT VERTICAL (IETV06)

SYMBOL	Z/BV	BETA0	ALPHA0
○	.158	-4.000	4.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

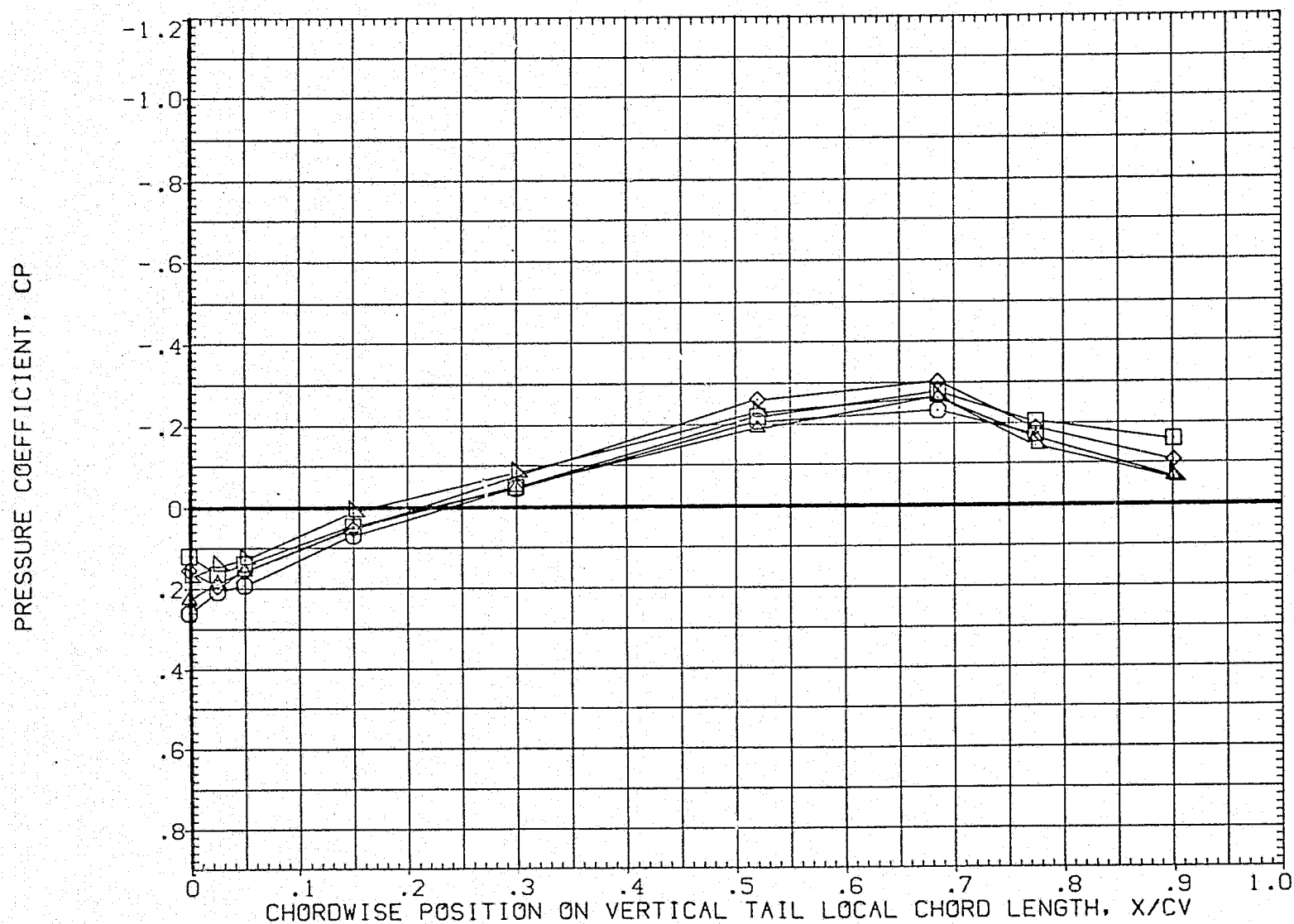


FIG. 67 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=8/4, SPDBRK=0, MACH=0.6

ARC11-019 IA81 LVAP(ELHL UNSEALD) LEFT VERTICAL (IETV06)

SYMBOL	Z/BV	BETA0	ALPHA0
○	.158	.000	4.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

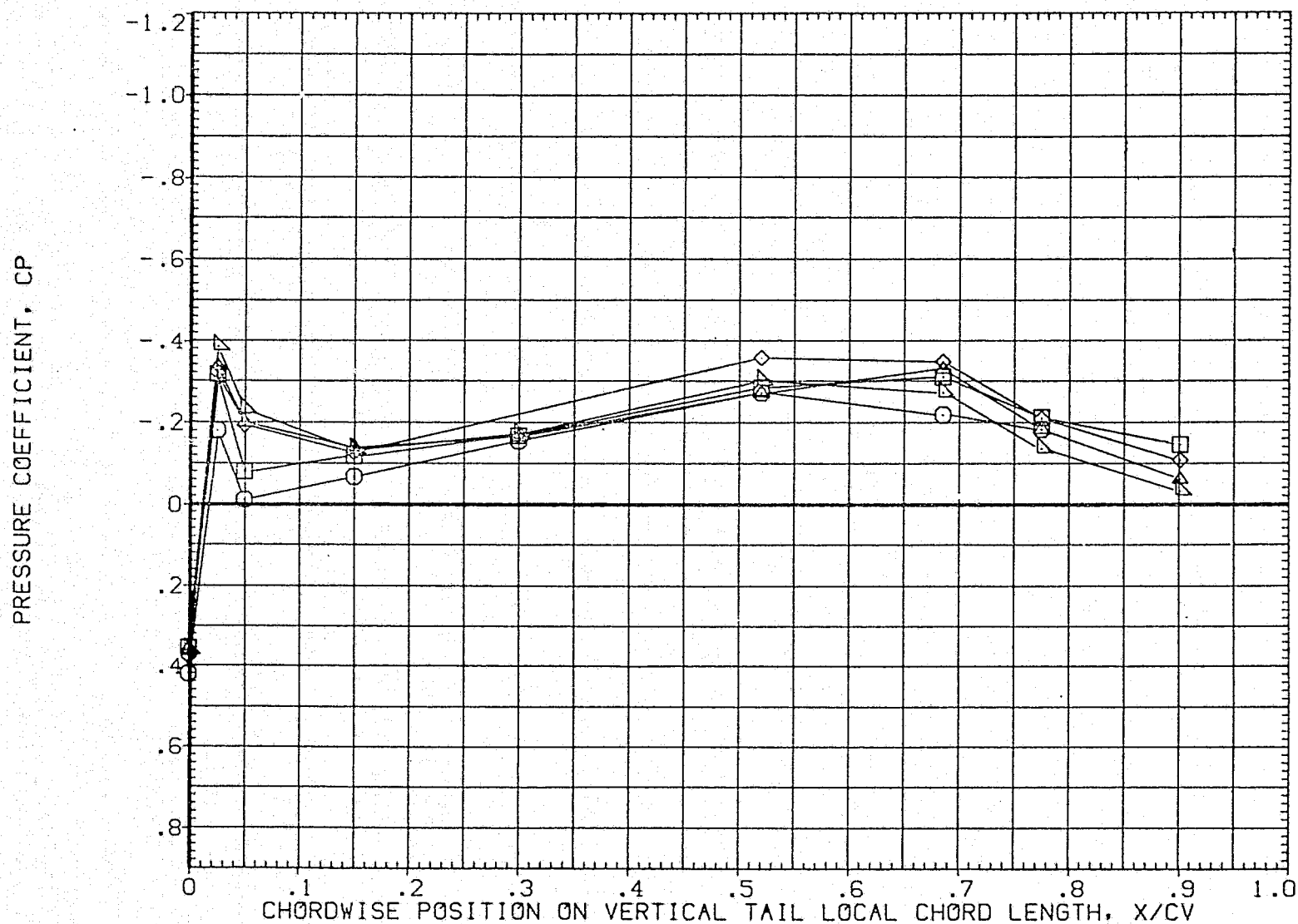


FIG. 67 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=8/4, SPDBRK=0, MACH=0.6

ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT VERTICAL (IETV06)

SYMBOL	Z/BV	BETA0	ALPHA0
○	.158	4.000	4.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

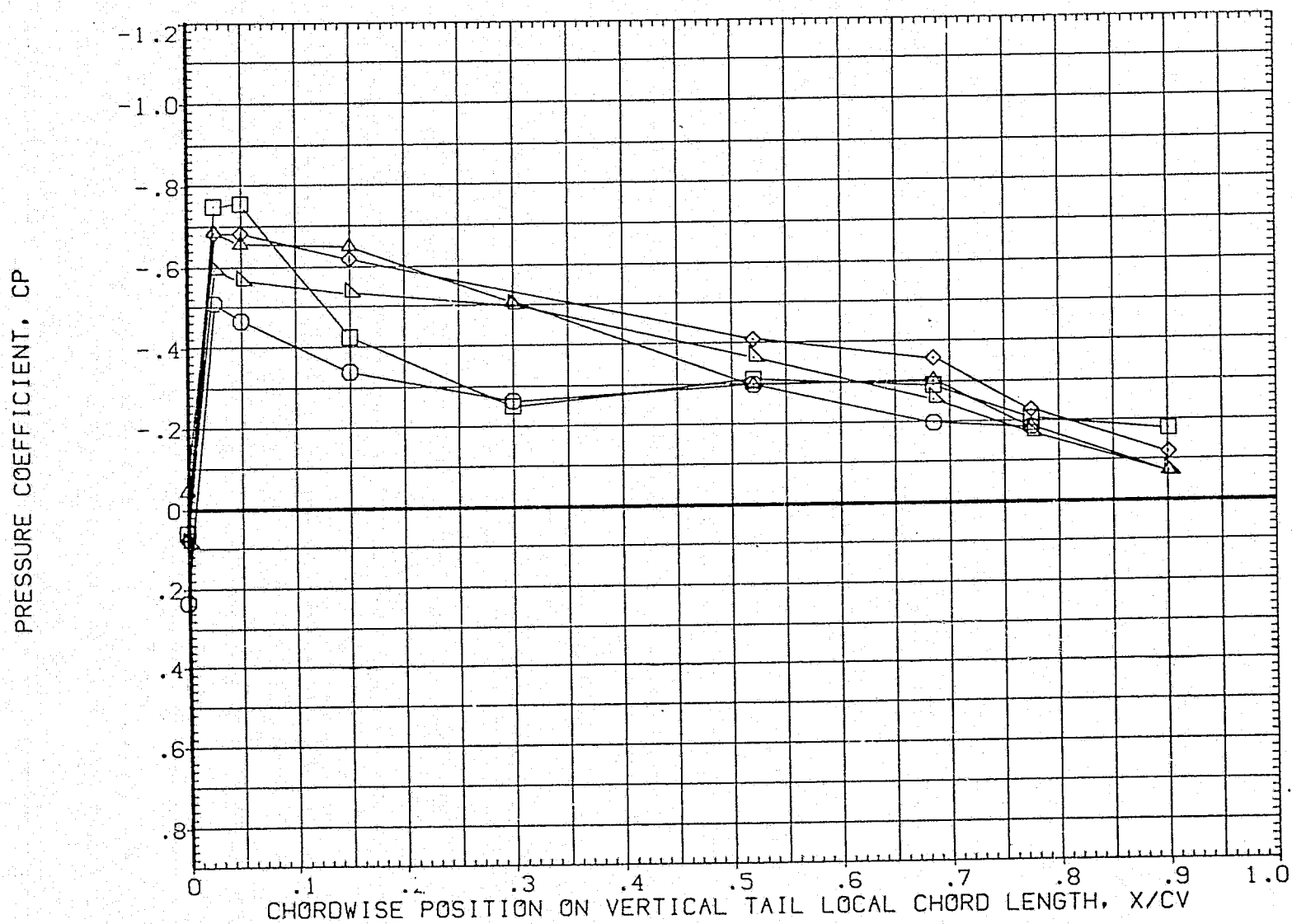


FIG. 67 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=8/4, SPDBRK=0, MACH=0.6

ARC11-019 IA81 LVAP(ELHL UNSEALD) LEFT VERTICAL (IETV07)

SYMBOL

Z/BV

BETA0

ALPHA0

PARAMETRIC VALUES

MACH

.900

RN/FT

2.250

ELV-18

8.000

ELV-08

4.000

RUDDER

.000

SPDBRK

.000

.158

-4.000

-4.000

.317

.602

.839

.925

○
□
◇
△
▽

PRESSURE COEFFICIENT, CP

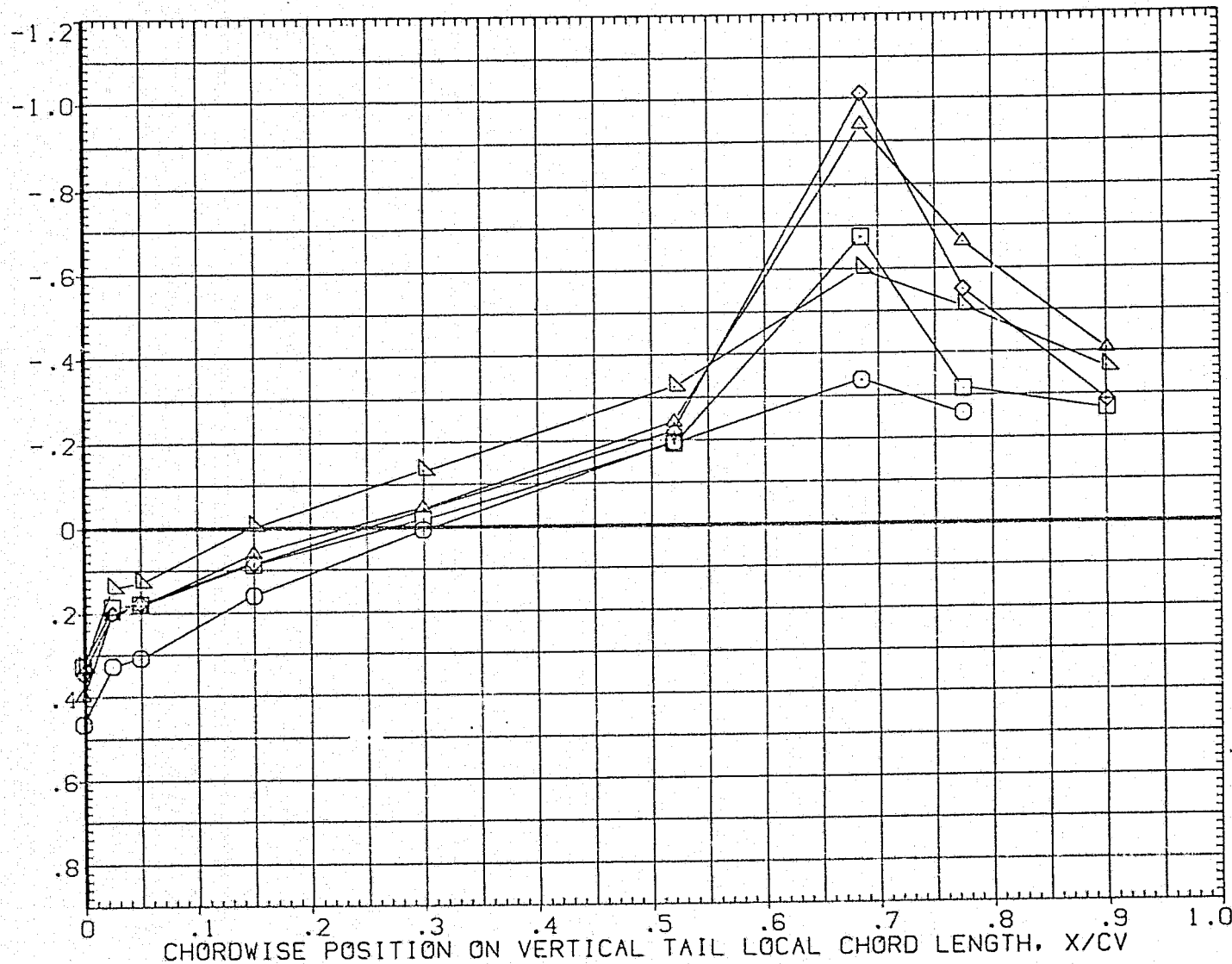


FIG. 68 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=8/4, SPDBRK=0, MACH=0.9

ARC11-019 IA81 LVAP(ELHL UNSEALD) LEFT VERTICAL (IETV07)

SYMBOL	Z/BV	BETA0	ALPHA0
○	.158	.000	-4.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

PRESSURE COEFFICIENT, CP

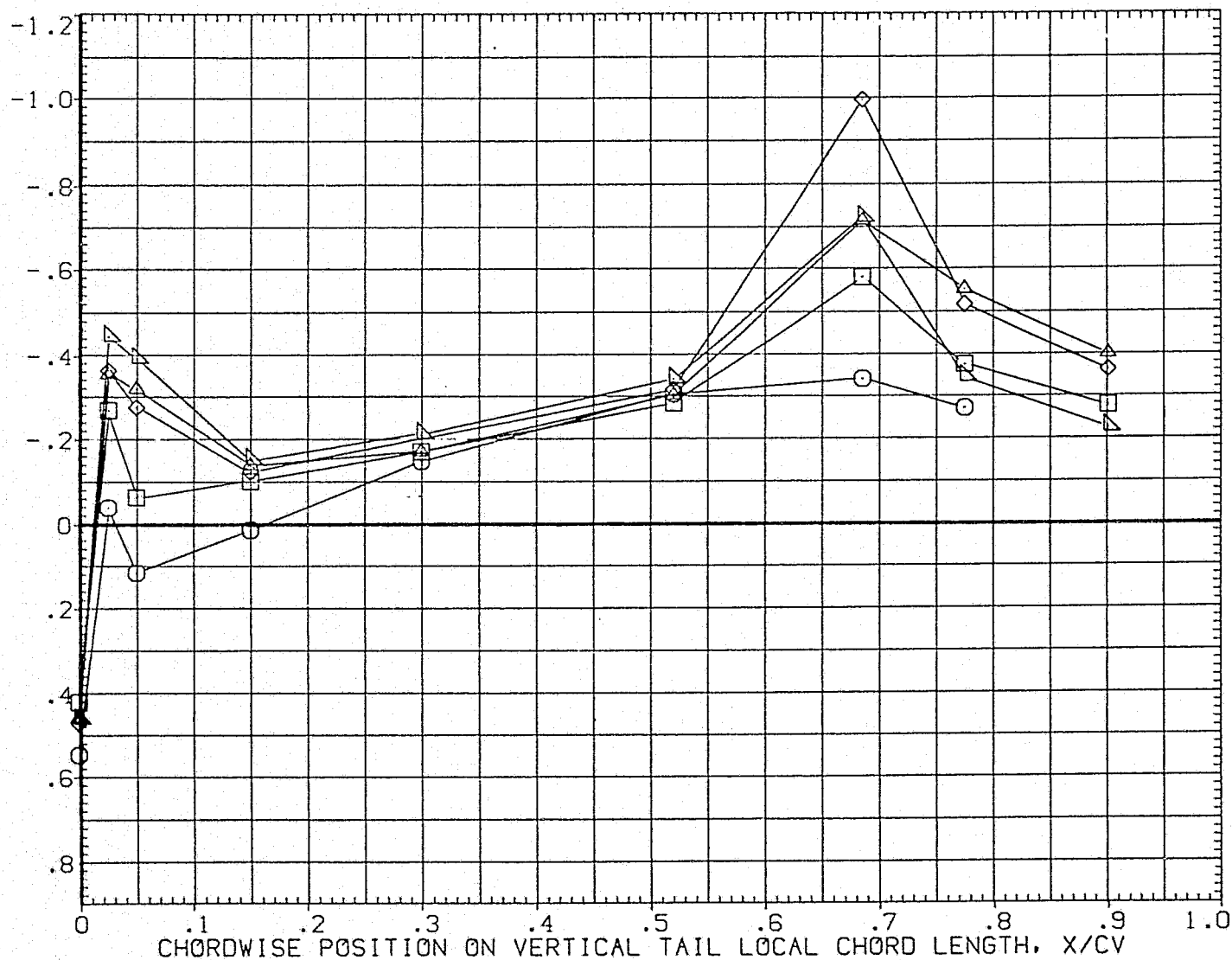


FIG. 68 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=8/4, SPDBRK=0, MACH=0.9

ARC11-019 IA81 LVAP(ELHL UNSEALED) LEFT VERTICAL (IETV07)

SYMBOL	Z/BV	BETA0	ALPHA0
○	.158	4.000	-4.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

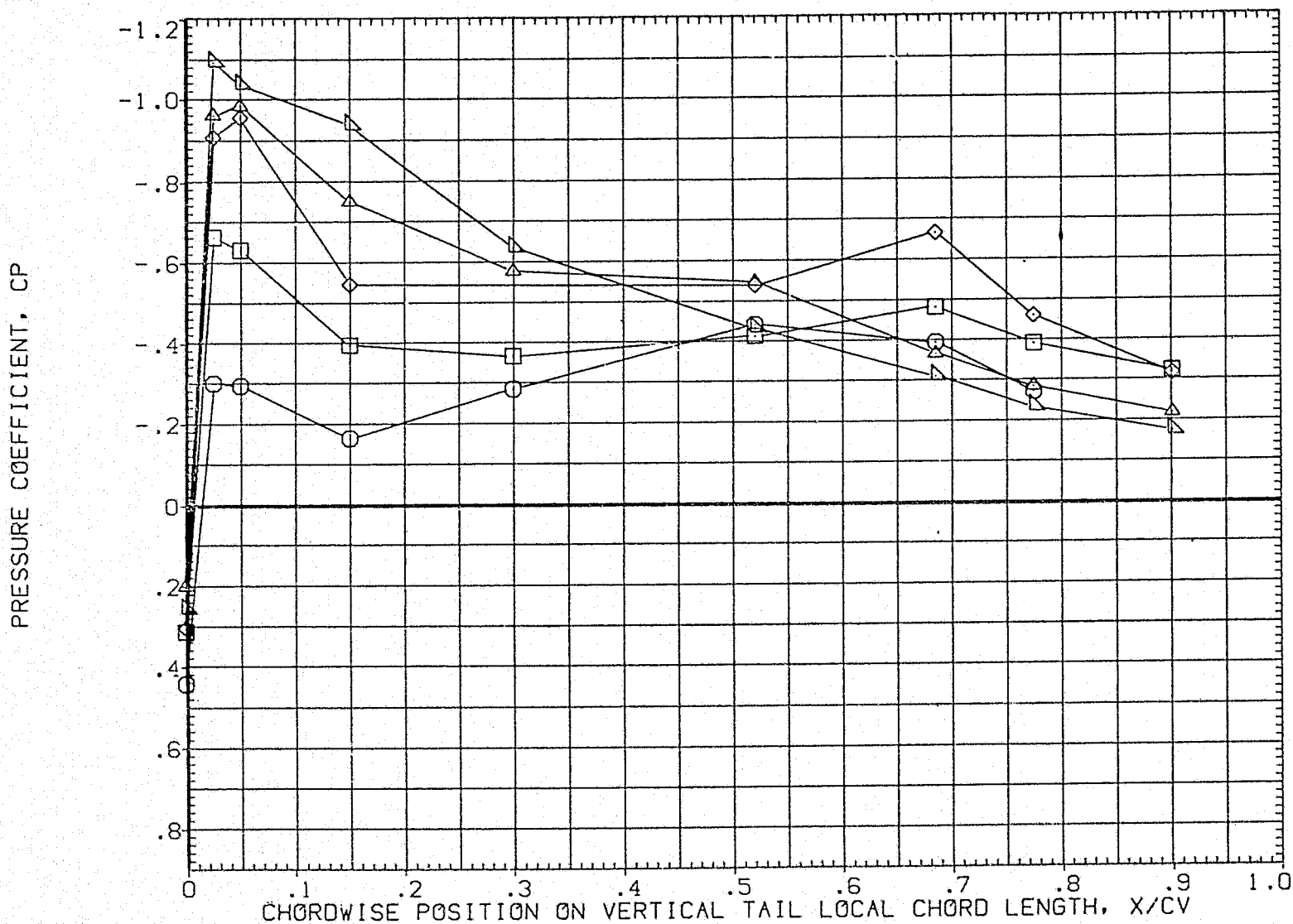


FIG. 68 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=8/4, SPDBRK=0, MACH=0.9

ARC11-019 IA81 LVAP(ELHL UNSEALD) LEFT VERTICAL (IETV07)

SYMBOL	Z/BV	BETA0	ALPHA0
○	.158	-4.000	.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

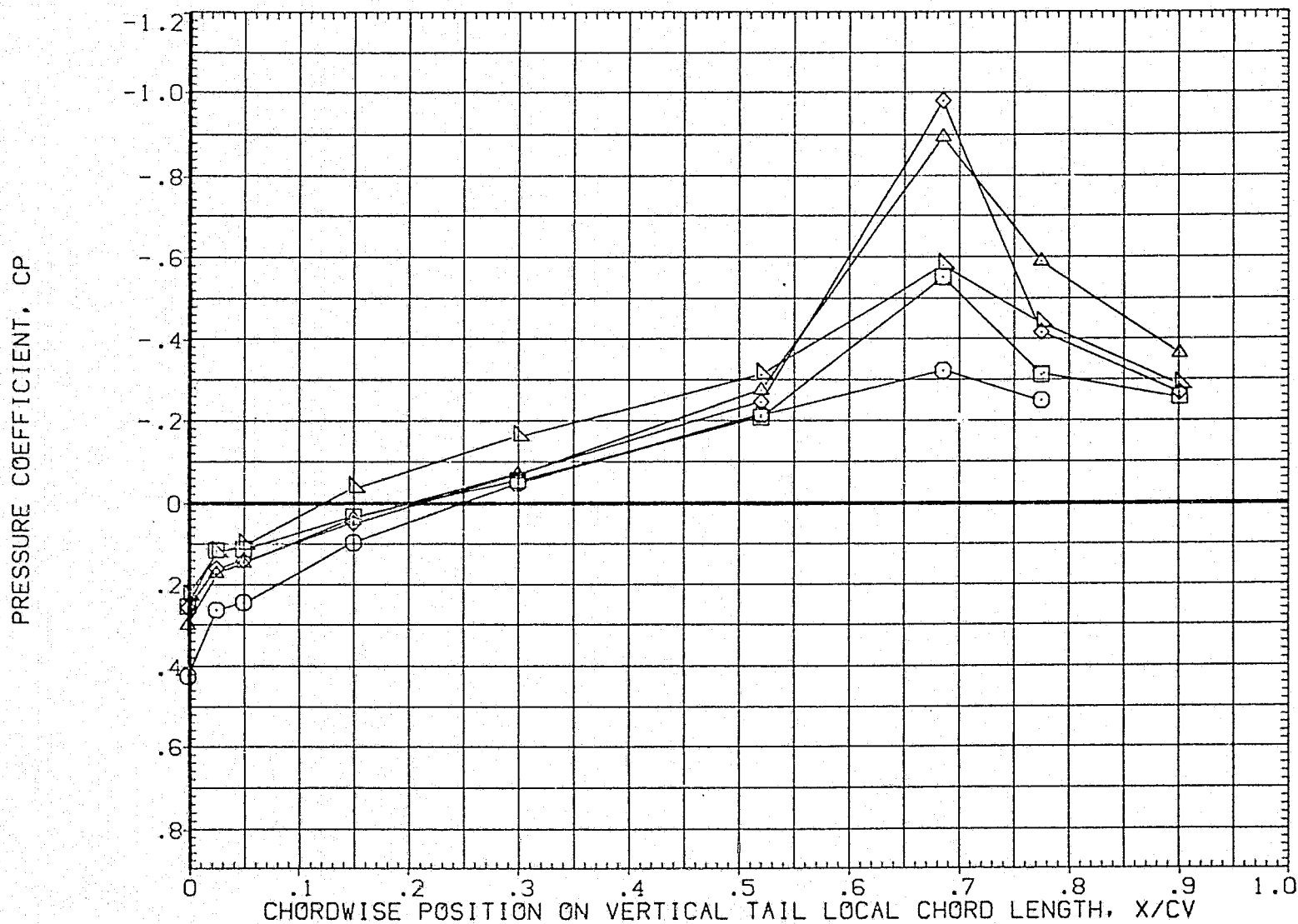


FIG. 68 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON 1/0=8/4, SPDBRK=0, MACH=0.9

ARC11-019 IA81 LVAP(ELHL UNSEALD) LEFT VERTICAL (IETV07)

SYMBOL	Z/BV	BETA0	ALPHA0
○	.158	.000	.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	.900	RN/F1	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

PRESSURE COEFFICIENT, CP

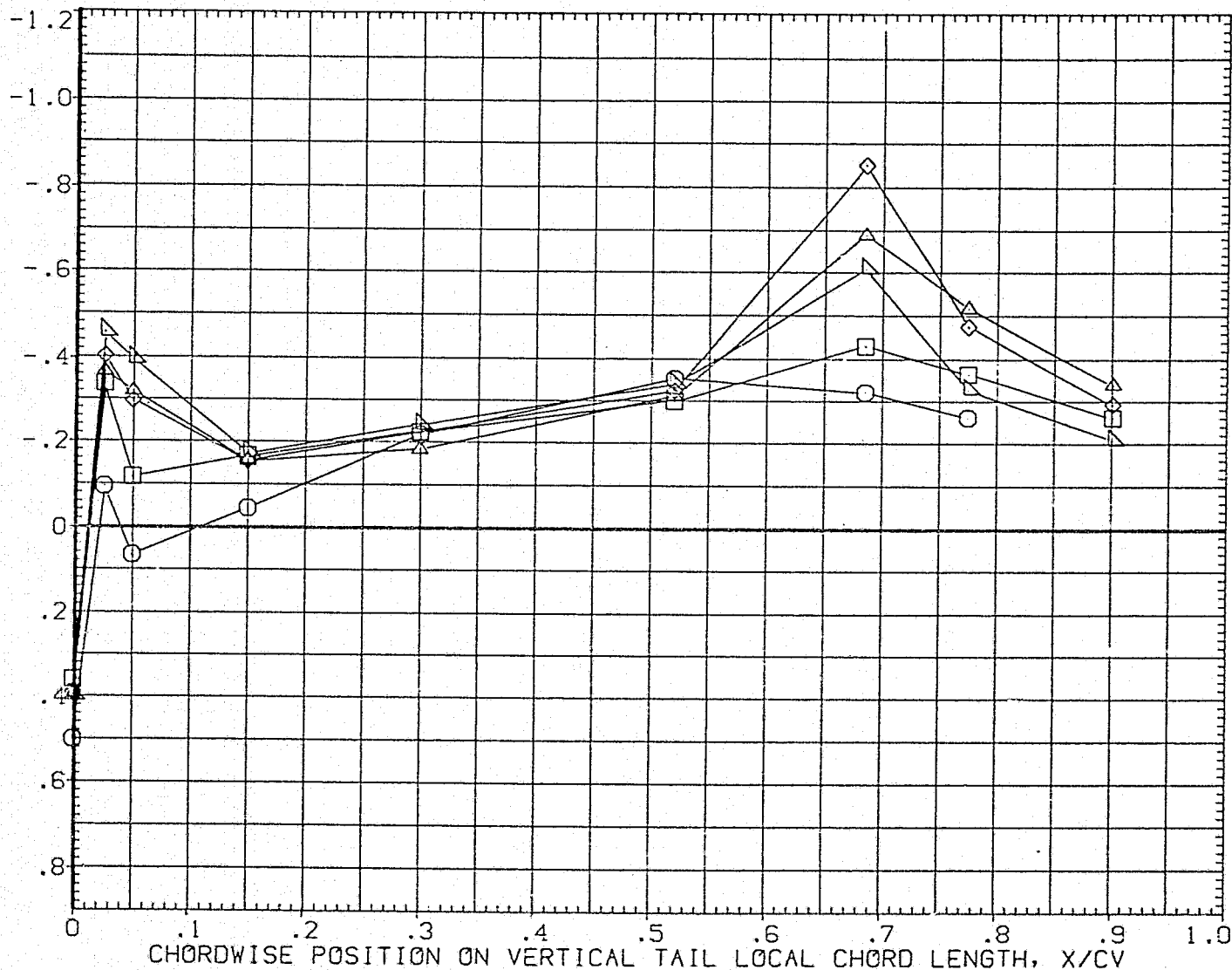


FIG. 68 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=8/4, SPDBRK=0, MACH=0.9

ARC11-019 IA81 LVAP(ELHL UNSEALD) LEFT VERTICAL (IETV07)

SYMBOL	Z/BV	BETA0	ALPHA0
○	.158	4.000	.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

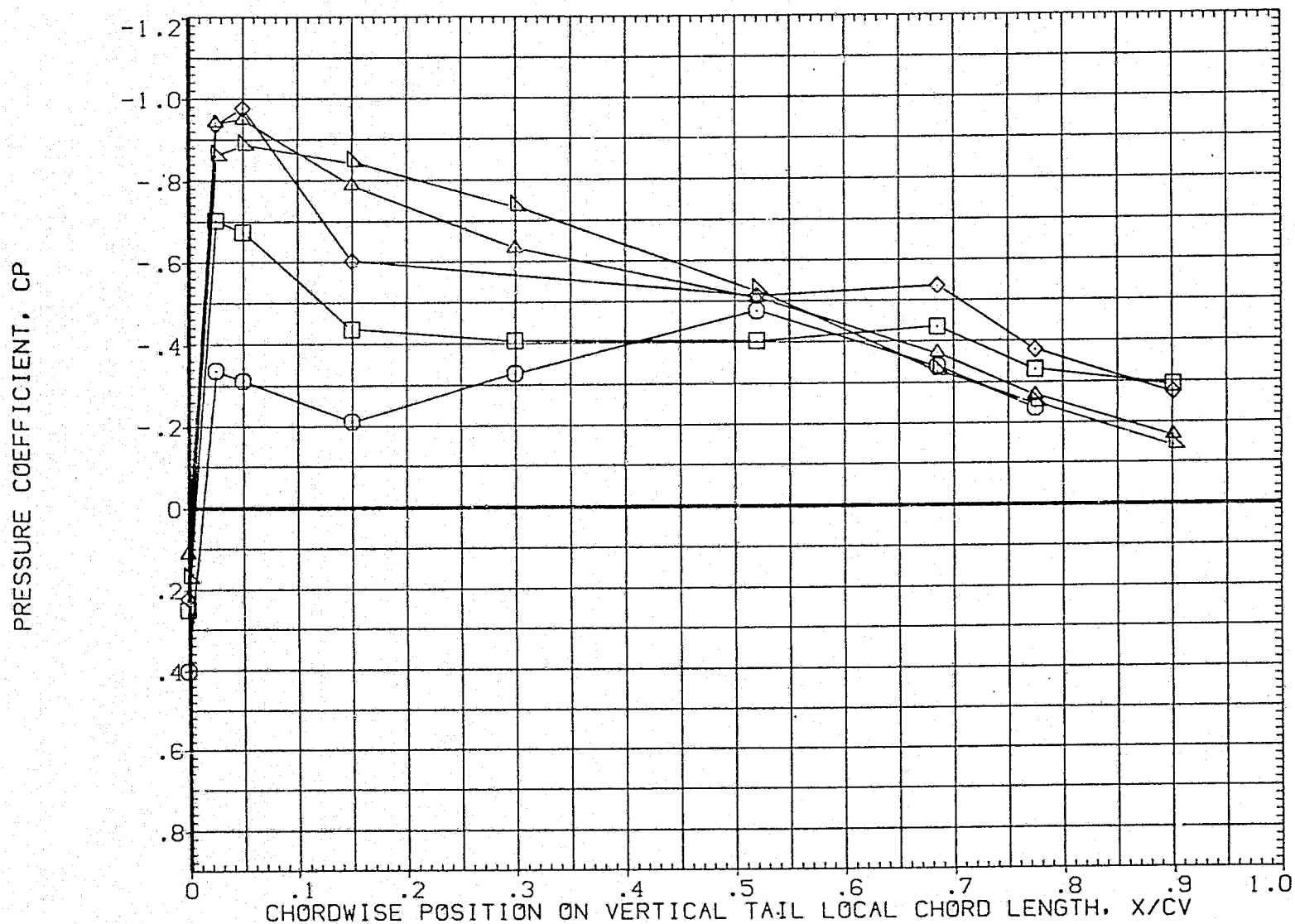


FIG. 68 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=8/4, SPDBRK=0, MACH=0.9

ARC11-019 IA81 LVAP(ELHL UNSEALD) LEFT VERTICAL (IETV07)

SYMBOL

○
□
◇
△
▽

Z/BV

.158
.317
.602
.839
.925

BETA0

-4.000

ALPHA0

4.000

PARAMETRIC VALUES

MACH	.900	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

PRESSURE COEFFICIENT, CP

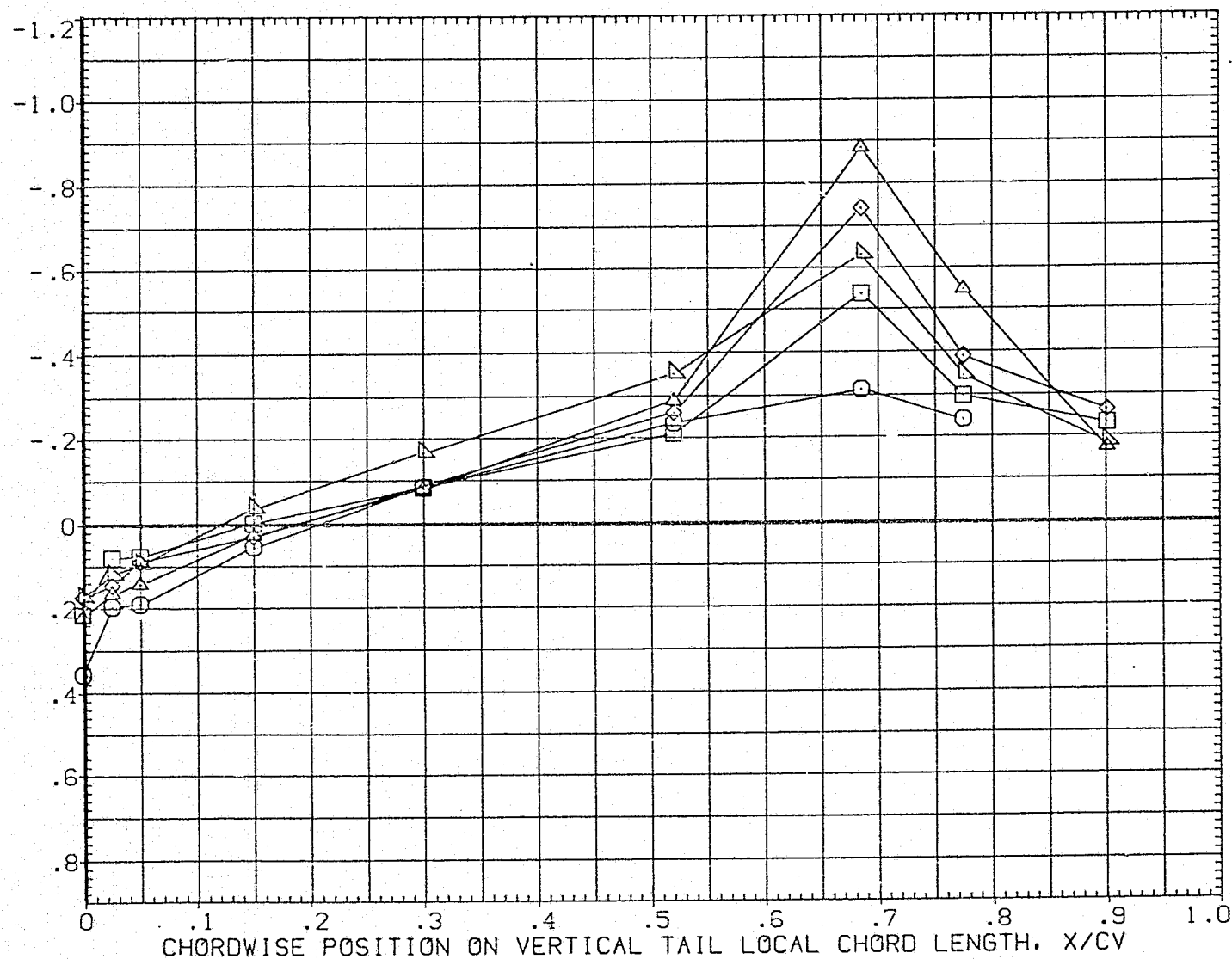


FIG. 68 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=8/4, SPDBRK=0, MACH=0.9

ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT VERTICAL (IETV07)

SYMBOL	Z/BV	BETA0	ALPHA0
○	.158	.000	4.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

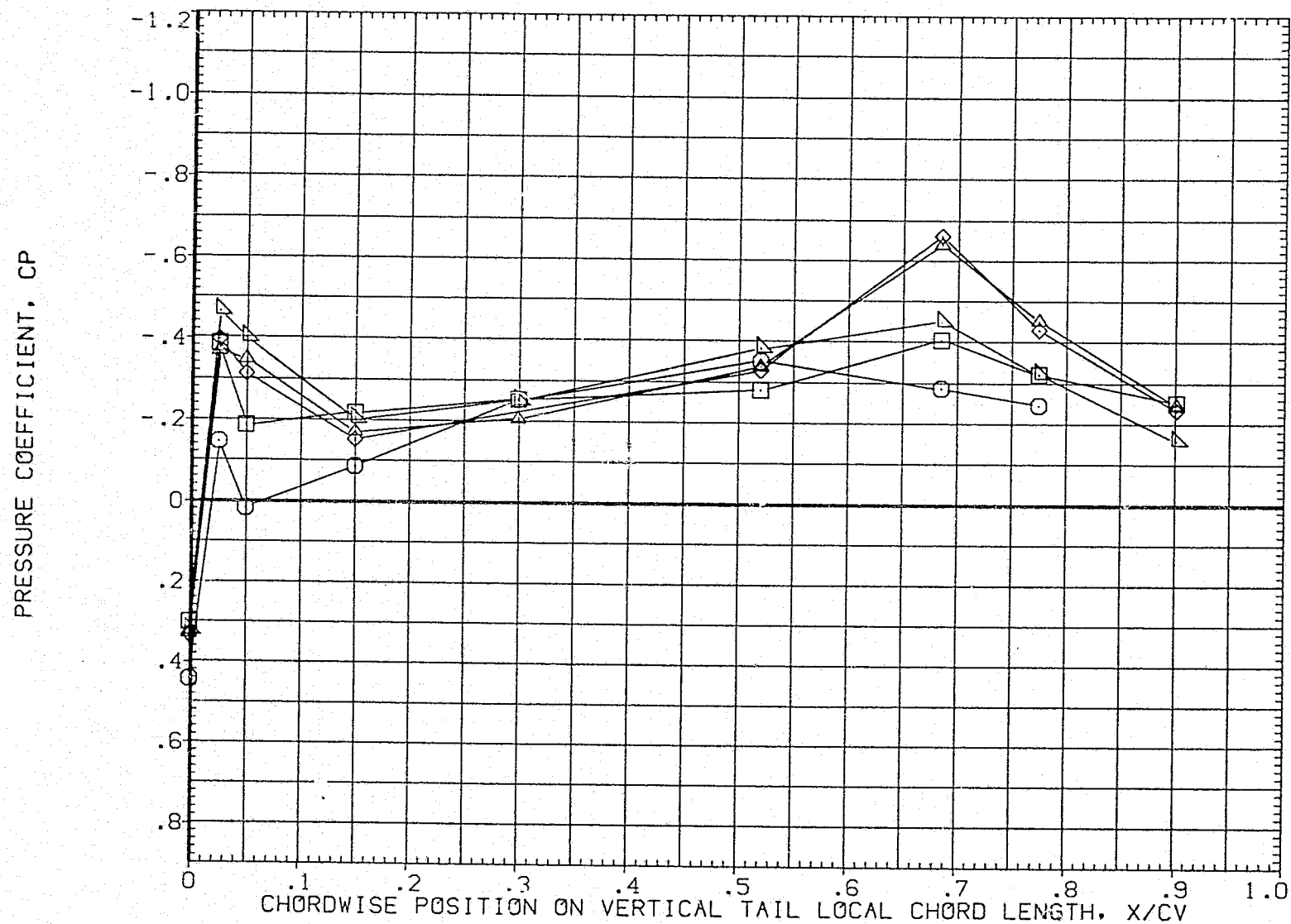


FIG. 68 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=8/4, SPDBRK=0, MACH=0.9

ARC11-019 IA81 LVAP(ELHL UNSEALED) LEFT VERTICAL (IETV07)

SYMBOL
○
□
◇
△
▽

Z/BV
.158
.317
.602
.839
.925

BETA0
4.000

ALPHA0
4.000

PARAMETRIC VALUES

MACH	.900	RN/FT	2.250
ELV-1B	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

PRESSURE COEFFICIENT, CP

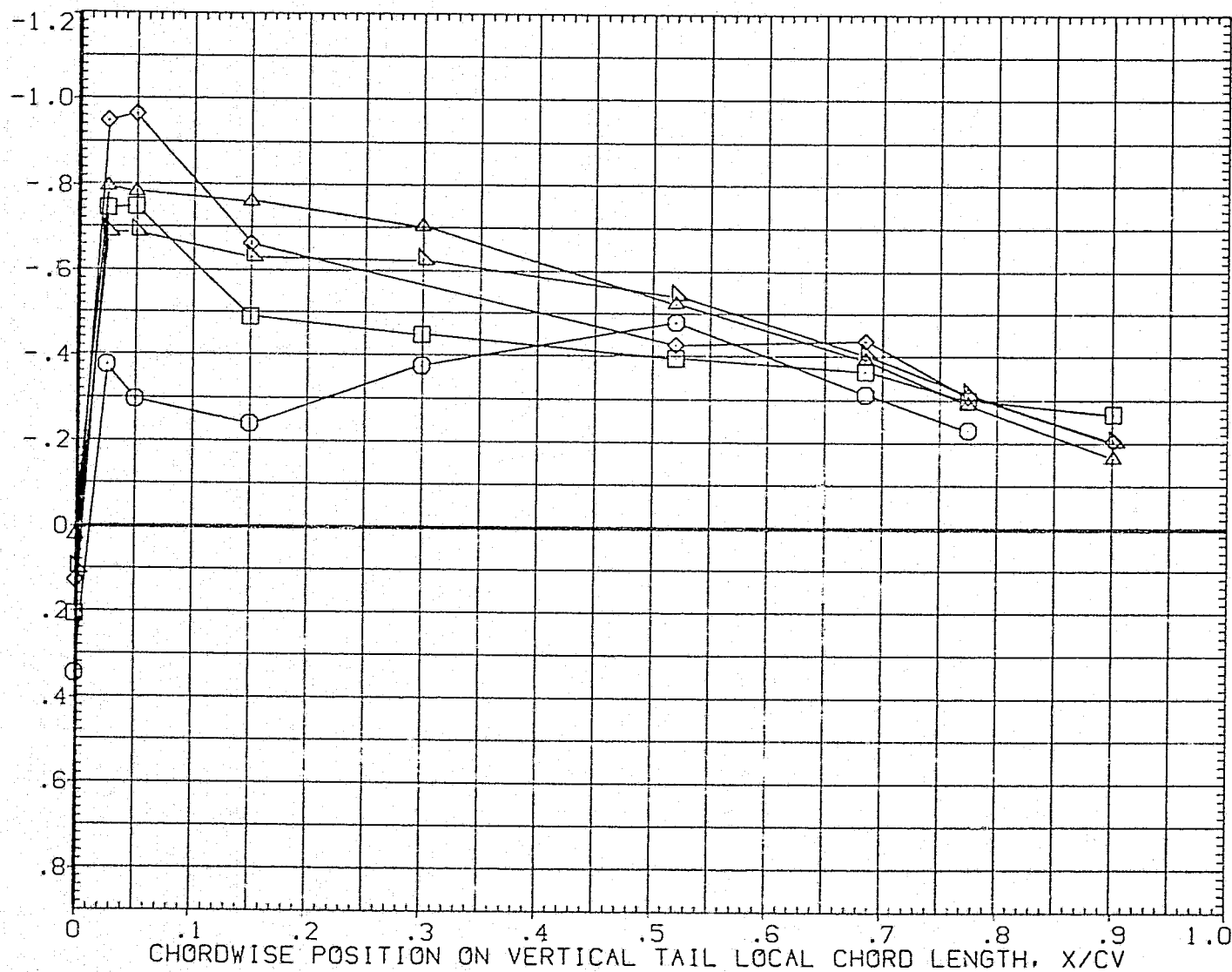


FIG. 68 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=8/4, SPDBRK=0, MACH=0.9

ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT VERTICAL (IETV09)

SYMBOL	Z/BV	BETA0	ALPHA0
○	.158	-4.000	-4.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

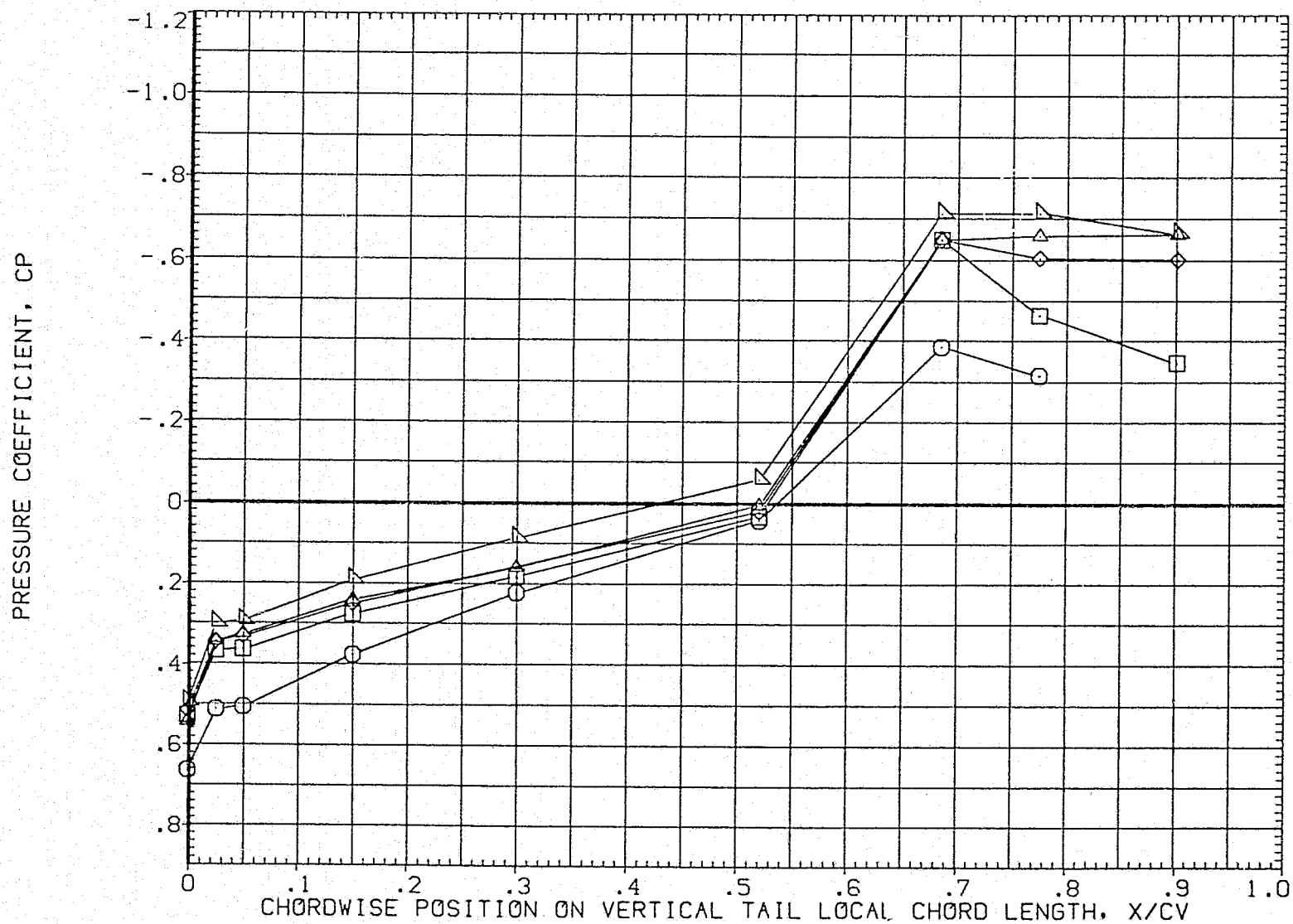


FIG. 69 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON 1/0=8/4, SPDBRK=0, MACH=1.1

ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT VERTICAL (IETV09)

SYMBOL	Z/BV	BETA0	ALPHA0
○	.158	.000	-4.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

PRESSURE COEFFICIENT, CP

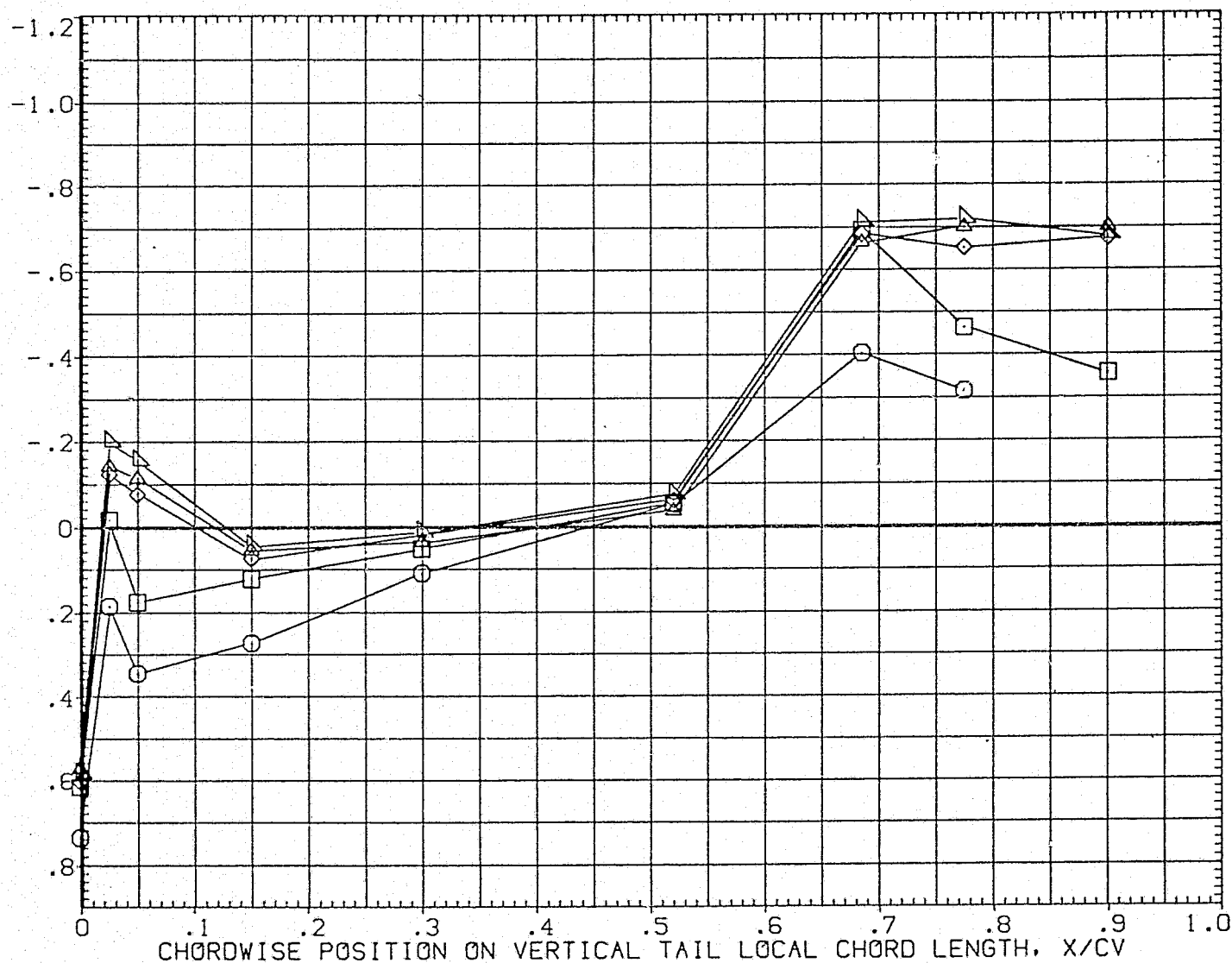


FIG. 69 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON 1/0=8/4, SPDBRK=0, MACH=1.1

ARC11-019 IA81 LVAP(ELHL UNSEALD) LEFT VERTICAL (IETV09)

SYMBOL
○
□
◇
△
▽

Z/BV
.158
.317
.602
.839
.925

BETA0
4.000

ALPHA0
-4.000

PARAMETRIC VALUES

MACH	1.100	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

PRESSURE COEFFICIENT, CP

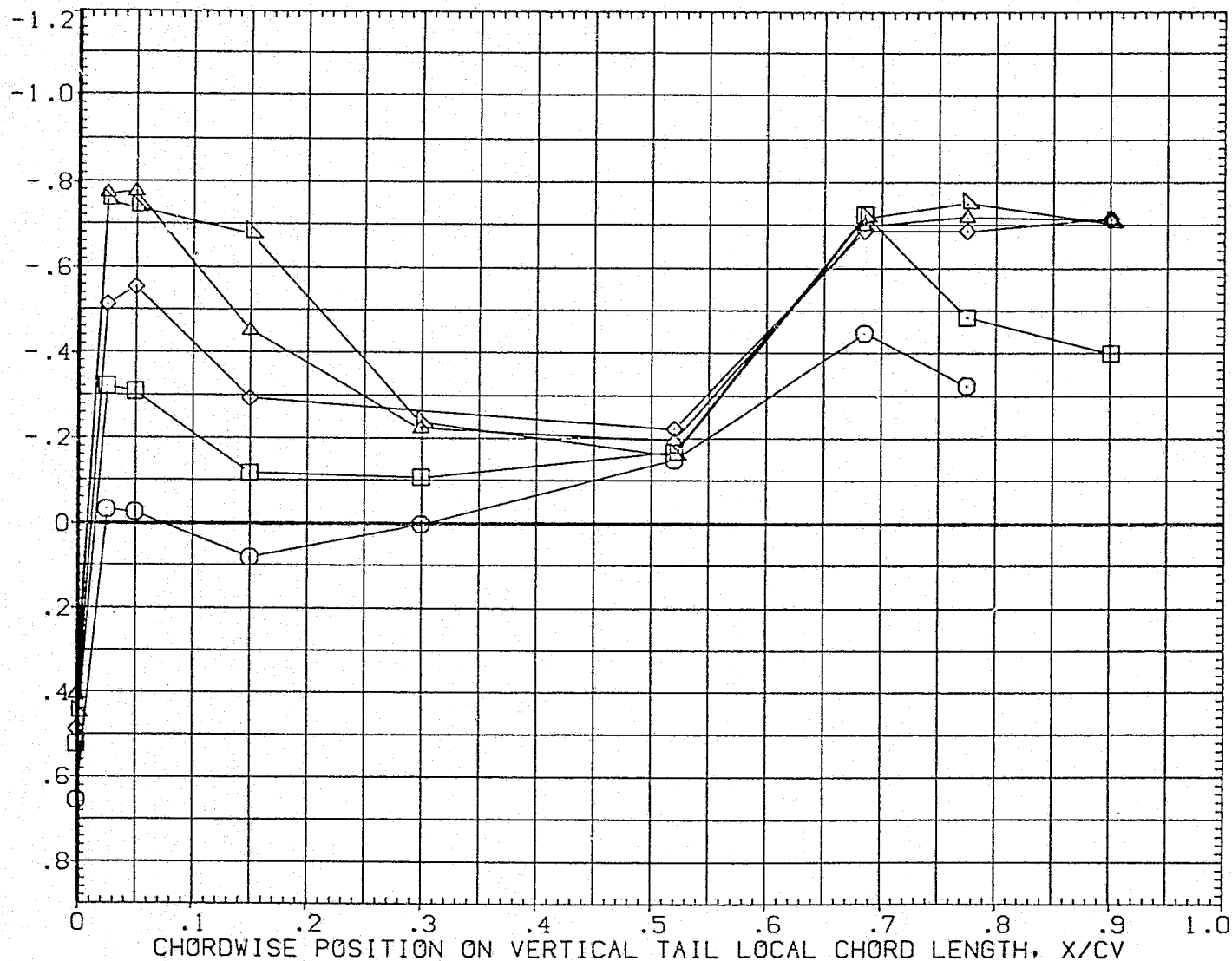


FIG. 69 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON 1/0=8/4, SPDBRK=0, MACH=1.1

ARC11-019 IA81 LVAP(ELHL UNSEALD) LEFT VERTICAL (IETV09)

SYMBOL	Z/BV	BETA0	ALPHA0
○	.158	-4.000	.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

PRESSURE COEFFICIENT, CP

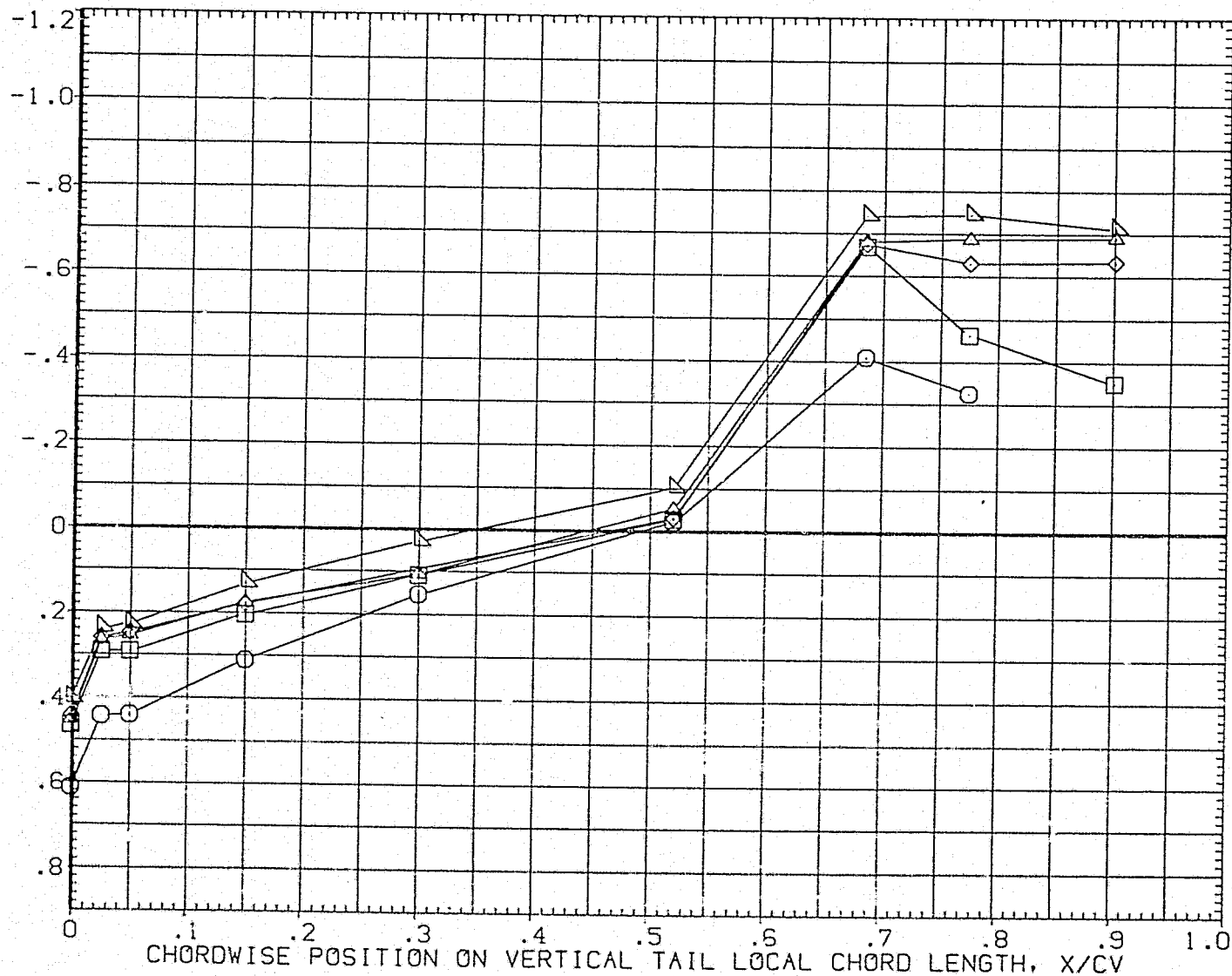


FIG. 69 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON 1/0=8/4, SPDBRK=0, MACH=1.1

ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT VERTICAL (IETV09)

SYMBOL	Z/BV	BETA0	ALPHA0
○	.158	.000	.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

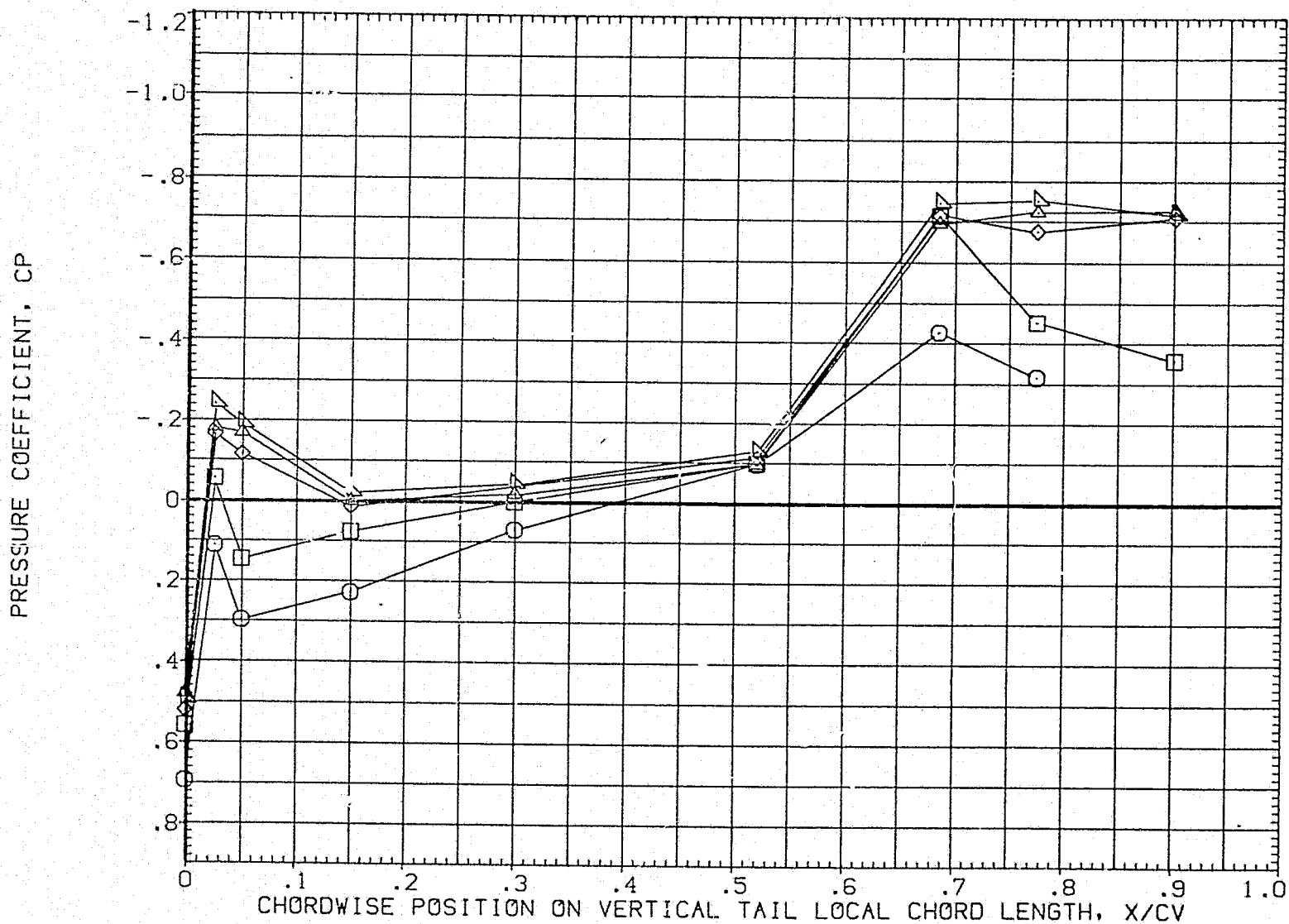


FIG. 69 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=8/4, SPDBRK=0, MACH=1.1

ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT VERTICAL (IETV09)

SYMBOL	Z/BV	BETA0	ALPHA3
○	.158	4.000	.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

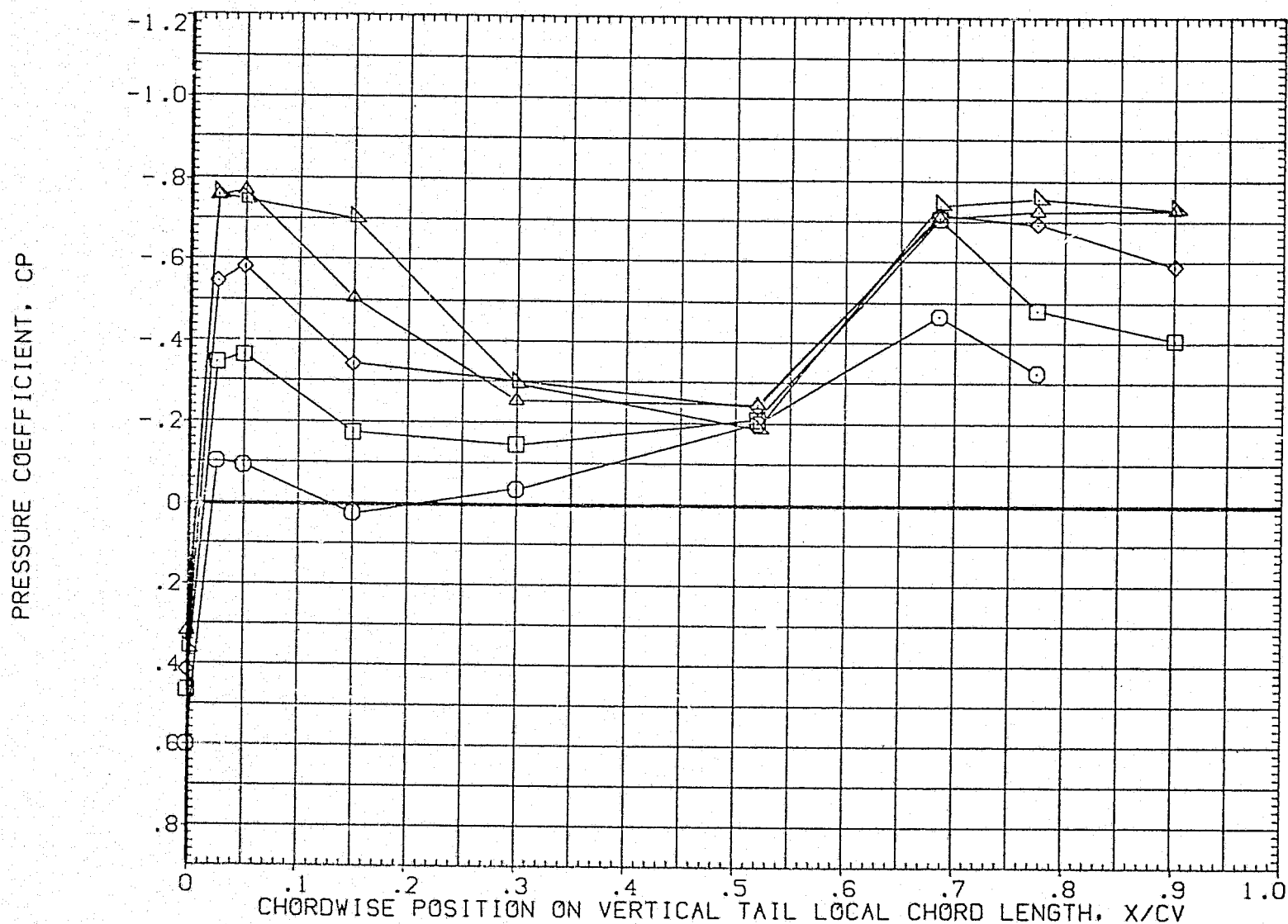


FIG. 69 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=8/4, SPDBRK=0, MACH=1.1

ARC11-019 IA81 LVAP(ELHL UNSEALD) LEFT VERTICAL (IETV09)

SYMBOL
○
□
◇
△
▽

Z/BV
.158
.317
.602
.839
.925

BETA0
-4.000

ALPHA0
4.000

PARAMETRIC VALUES
MACH 1.100 RN/FT 2.250
ELV-1B 8.000 ELV-0B 4.000
RUDDER .000 SPDBRK .000

PRESSURE COEFFICIENT, CP

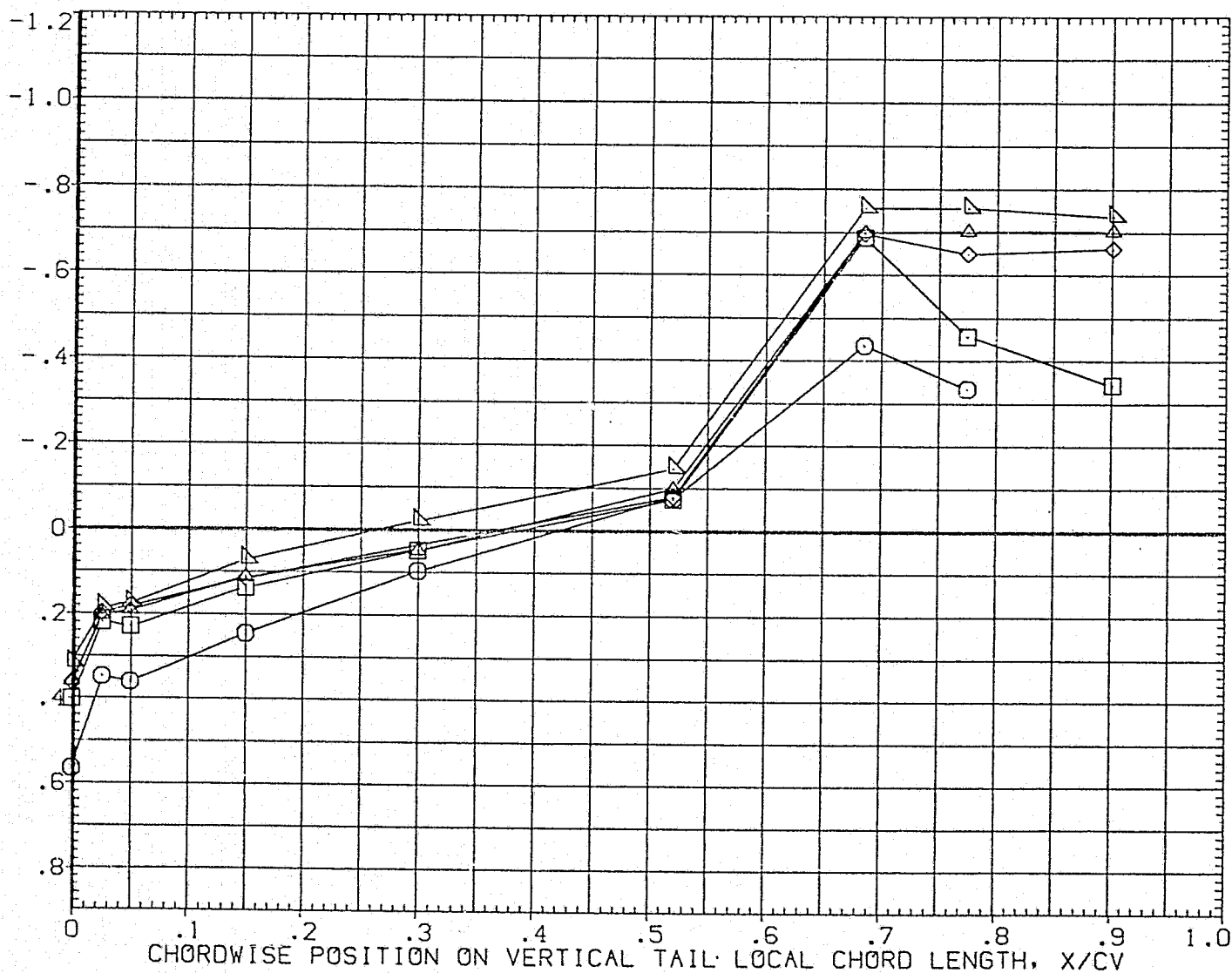


FIG. 69 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON 1/0=8/4, SPDBRK=0, MACH=1.1

ARC11-019 IA81 LVAP(ELHL UNSEALD) LEFT VERTICAL (IETV09)

SYMBOL	Z/BV	BETA0	ALPHA0
○	.158	.000	4.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

PRESSURE COEFFICIENT, CP

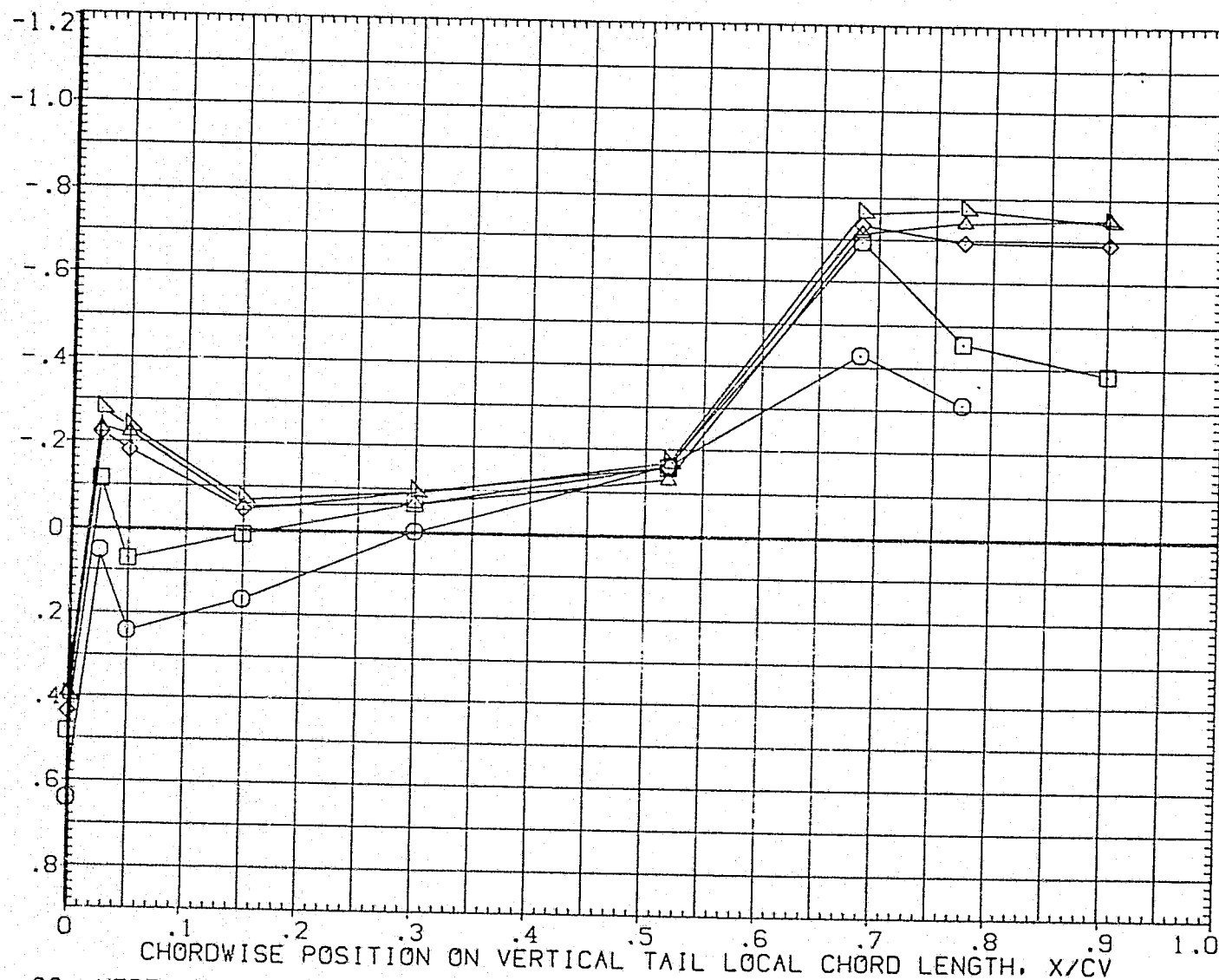


FIG. 69 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=8/4, SPDBRK=0, MACH=1.1

ARC11-019 IA81 LVAP(ELHL UNSEALD) LEFT VERTICAL (IETV09)

SYMBOL
○
□
◇
△
▽

Z/BV
.158
.317
.602
.839
.925

BETA0
4.000

ALPHA0
4.000

PARAMETRIC VALUES

MACH	1.100	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

PRESSURE COEFFICIENT, CP

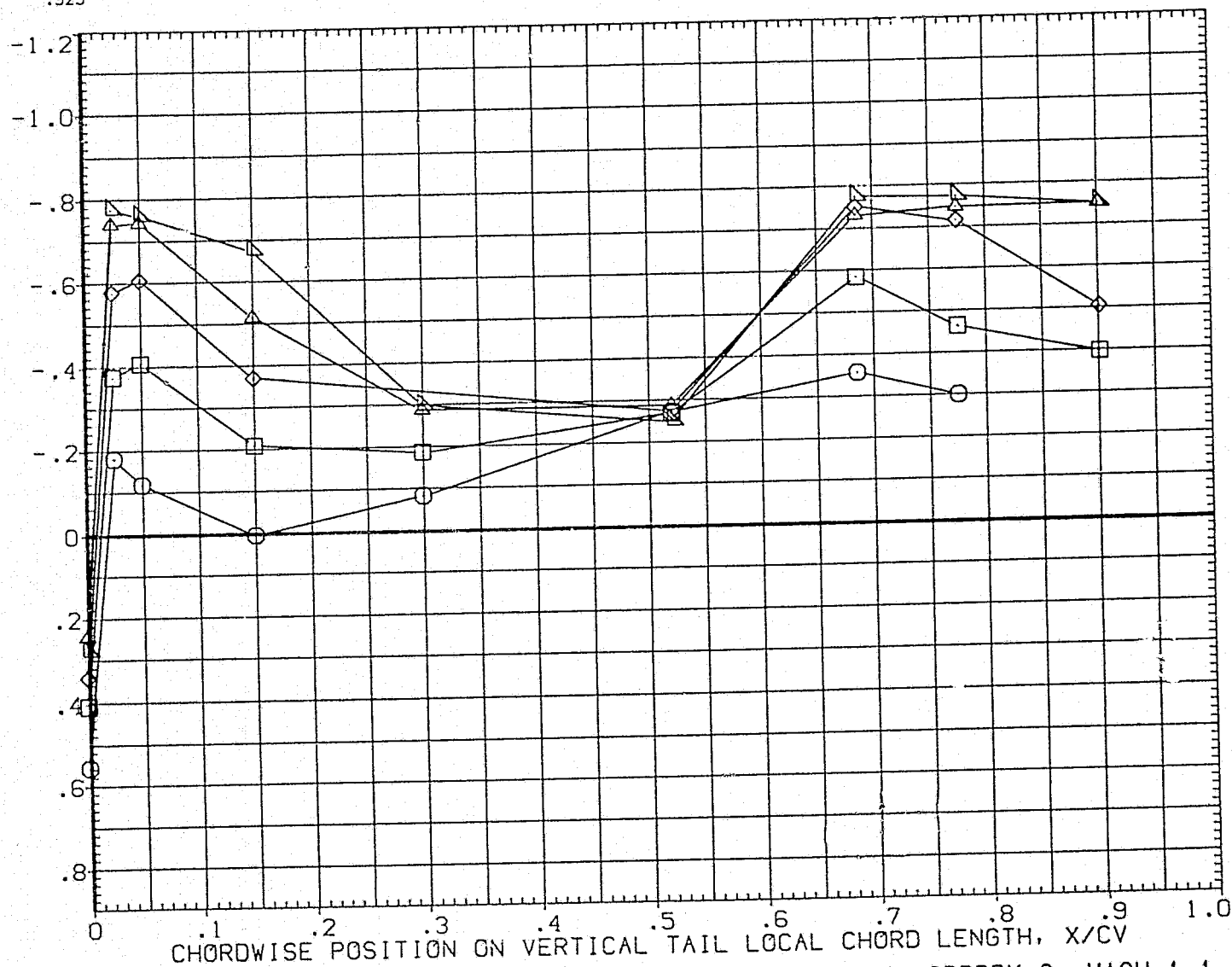


FIG. 69 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON 1/0=8/4, SPDBRK=0, MACH=1.1

ARC11-019 1A81 LVAP(ELHL SEALED) LEFT VERTICAL (IETV11)

SYMBOL	Z/BV	BETA0	ALPHA0
○	.158	-4.000	-4.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

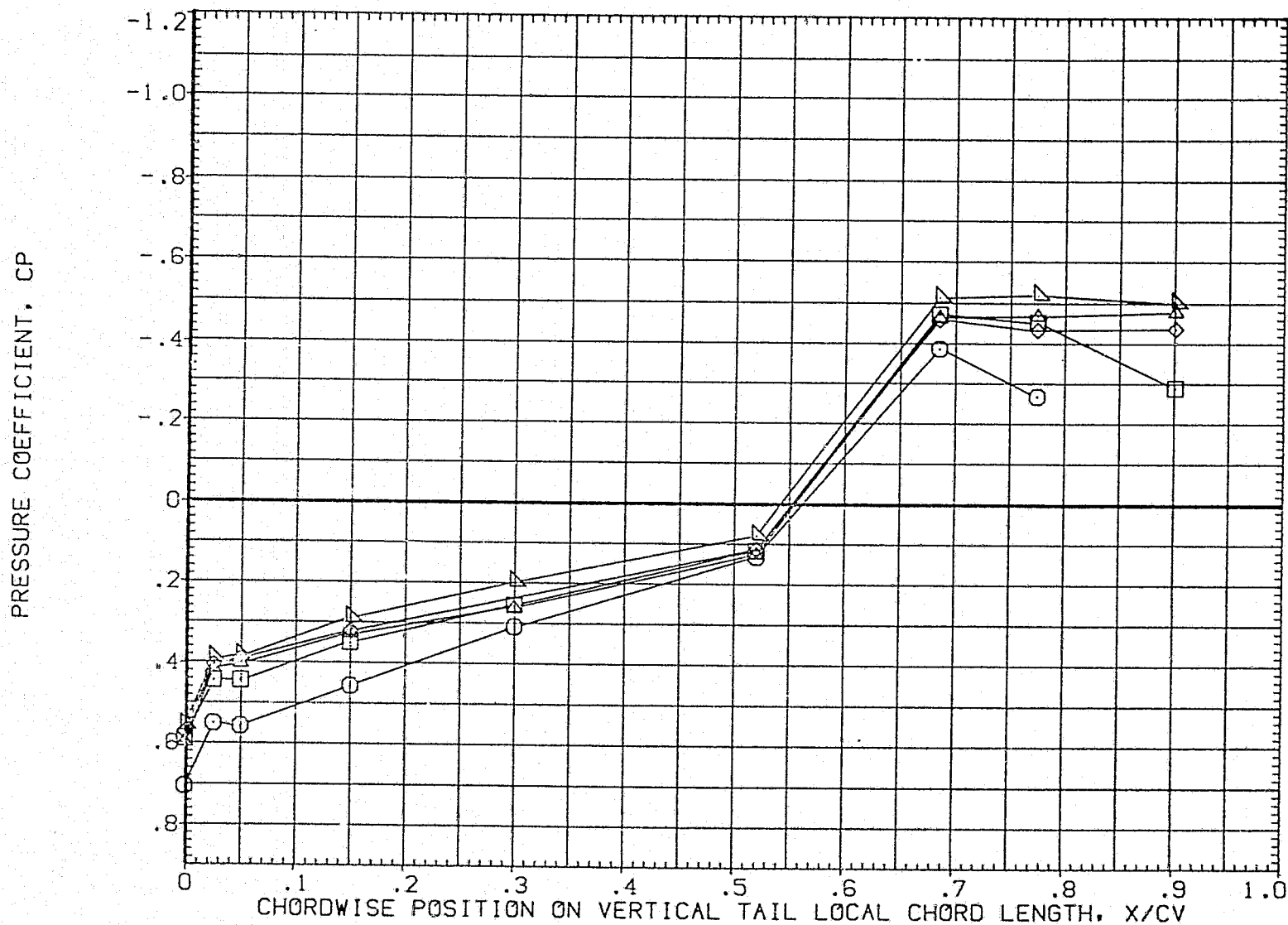


FIG. 70 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=8/4, SPDBRK=0, MACH=1.25

ARC11-019 IA81 LVAP(ELHL SEALED) LEFT VERTICAL (IETV11)

SYMBOL	Z/BV	BETA0	ALPHA0
○	.158	.000	-4.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

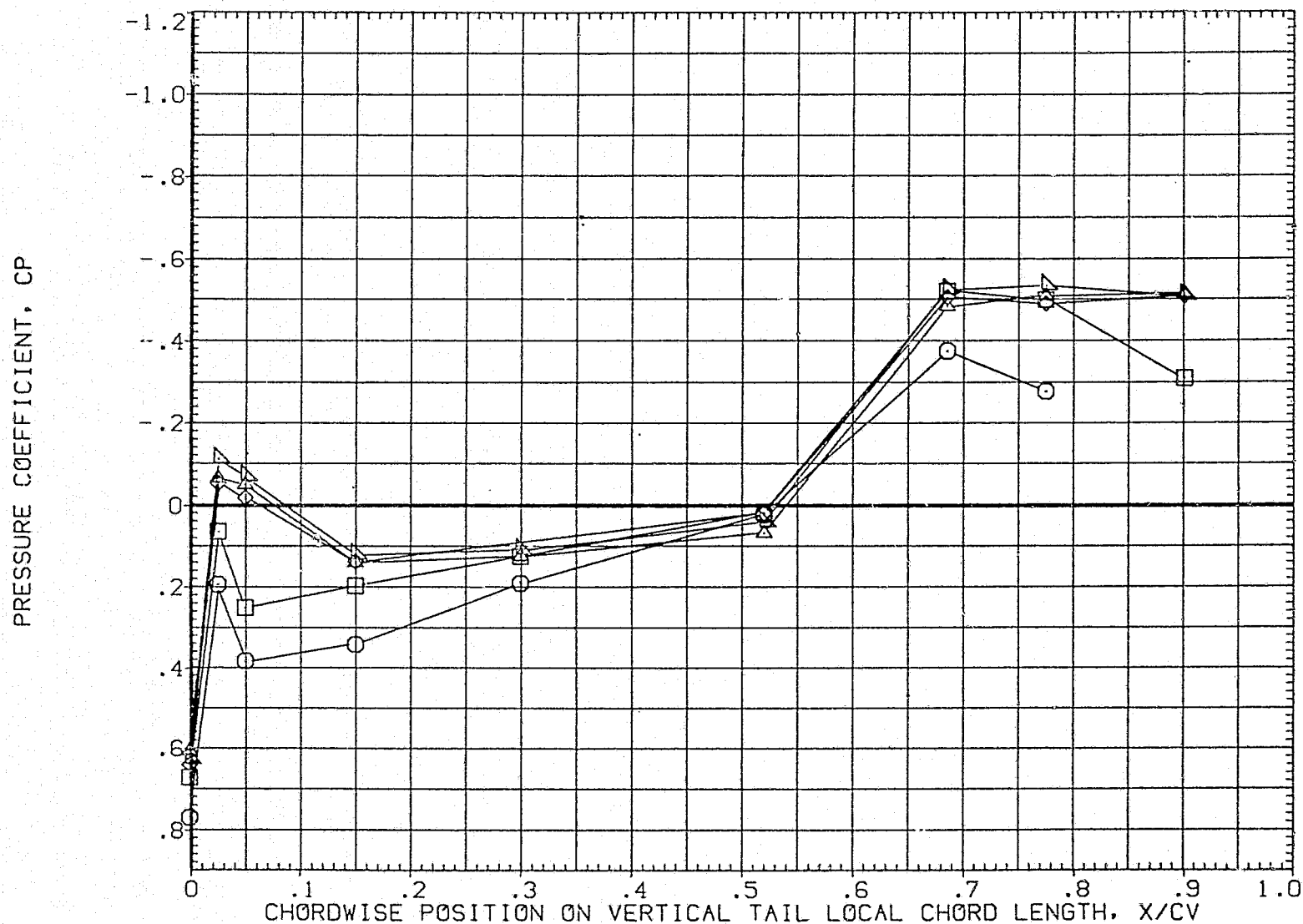


FIG. 70 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=8/4, SPDBRK=0, MACH=1.25

ARC11-019 IA81 LVAP(ELHL SEALED) LEFT VERTICAL (IETV11)

SYMBOL
○
□
◇
△
▽

Z/BV
.158
.317
.602
.839
.925

BETA0
4.000

ALPHA0
-4.000

PARAMETRIC VALUES

MACH	1.250	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

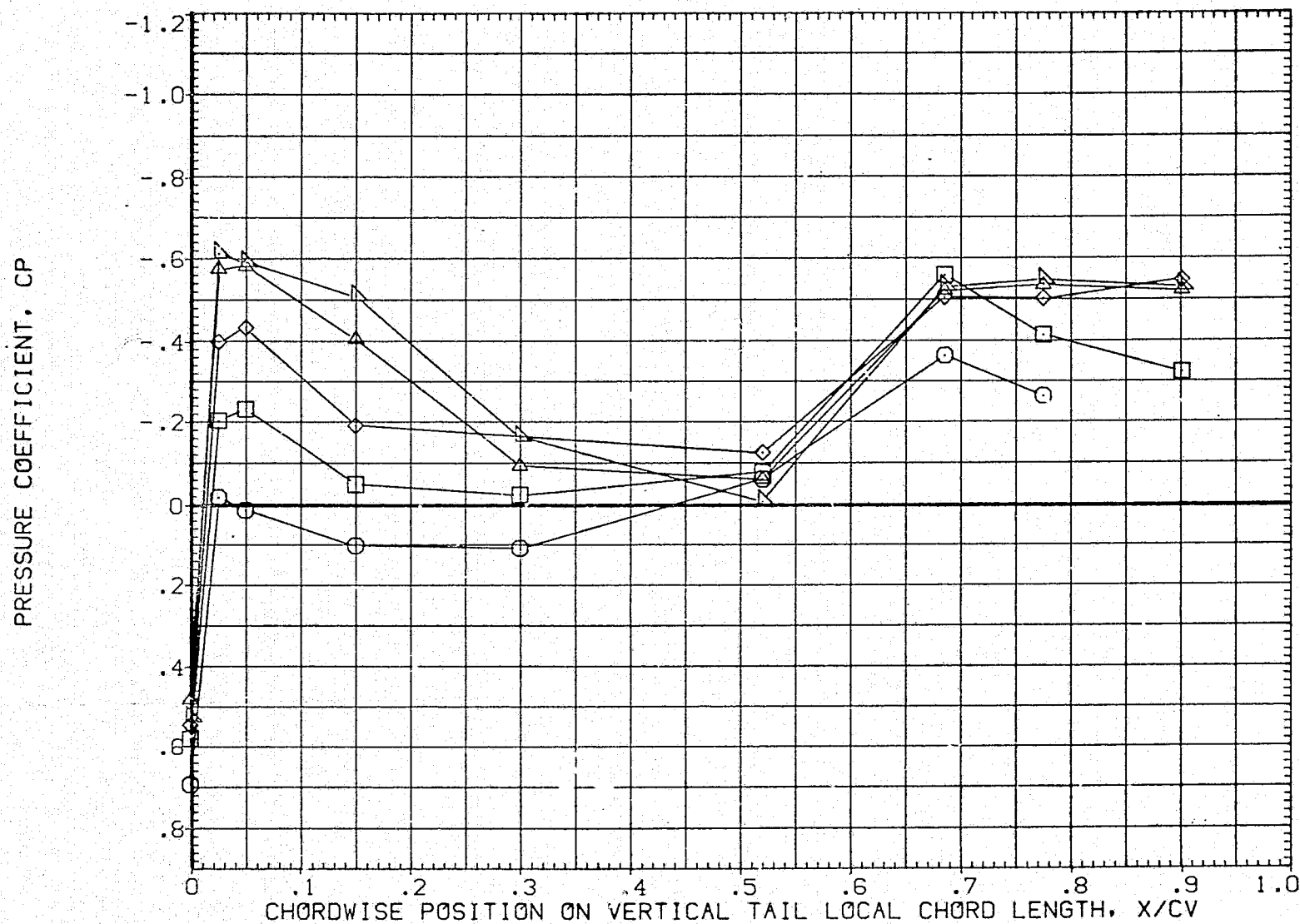


FIG. 70 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=8/4, SPDBRK=0, MACH=1.25

ARC11-019 1A81 LVAP(ELHL SEALED) LEFT VERTICAL (IETV11)

SYMBOL	Z/BV	BETA0	ALPHA0
○	.158	-4.000	.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-1B	8.000	ELV-09	4.000
RUDDER	.000	SPDBRK	.000

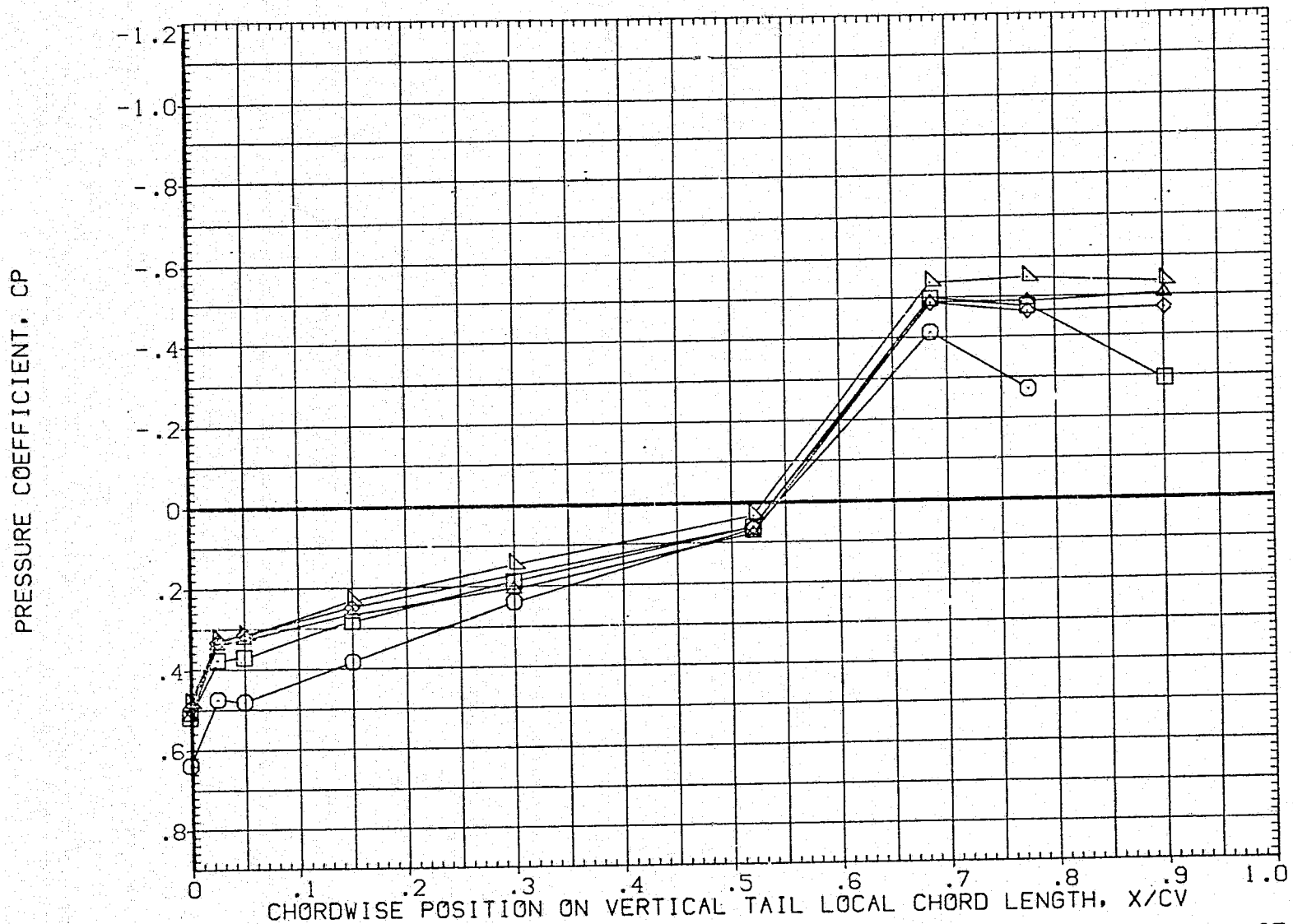


FIG. 70 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=8/4, SPDBRK=0, MACH=1.25

ARC11-019 1A81 LVAP(ELHL SEALED) LEFT VERTICAL (IETV11)

SYMBOL	Z/BV	BETA0	ALPHA0	MACH	PARAMETRIC VALUES	RN/FT	2.250
○	.158	.000	.000	ELV-18	8.000	ELV-08	4.000
◇	.317			RUDDER	.000	SPCBRK	.000
□	.602						
△	.839						
▽	.925						

PRESSURE COEFFICIENT, CP

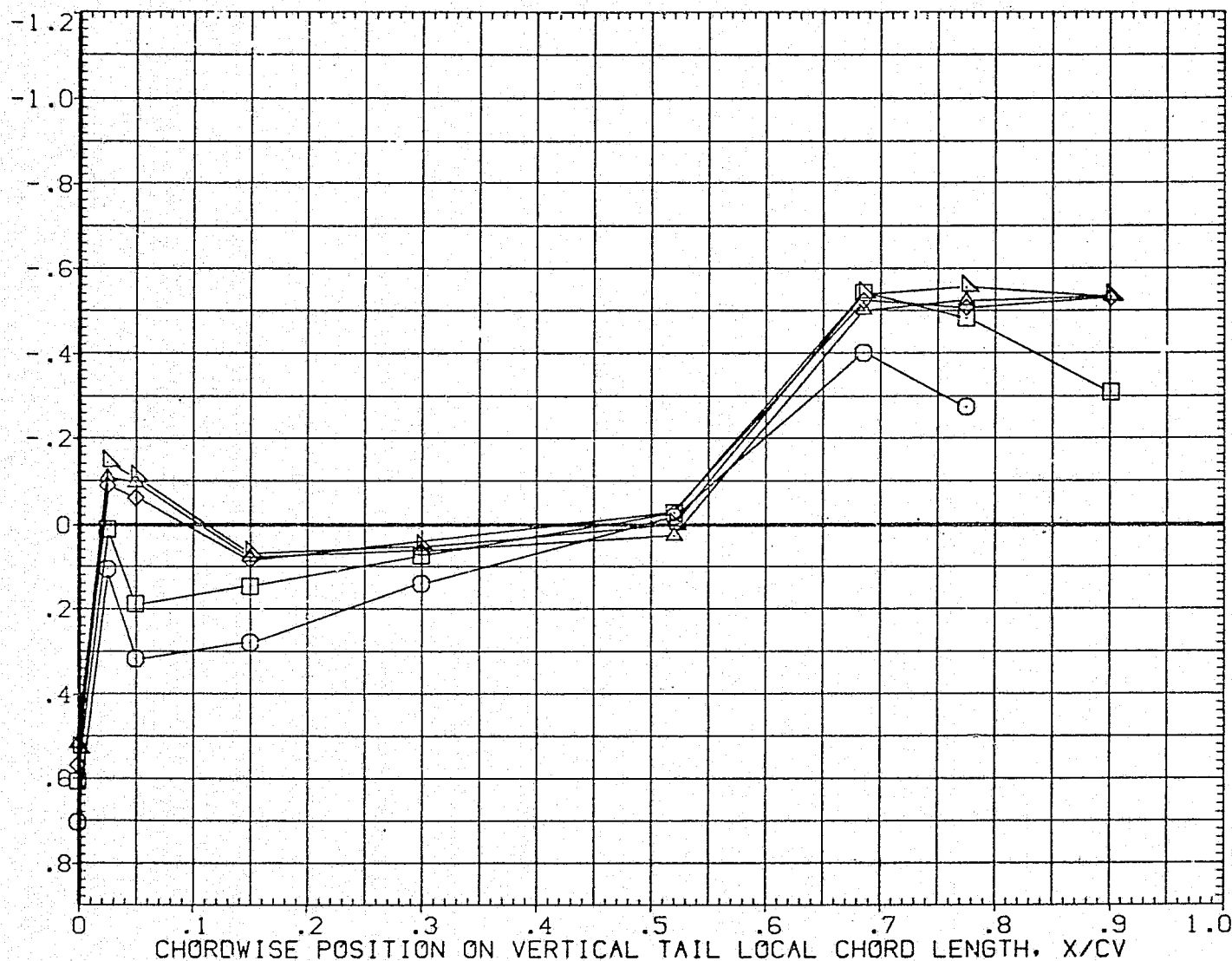


FIG. 70 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=8/4, SPDBRK=0, MACH=1.25

ARC11-019 IA81 LVAP(ELHL SEALED) LEFT VERTICAL (IETV11)

SYMBOL	Z/BV	BETA0	ALPHA0
○	.158	4.000	.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

PRESSURE COEFFICIENT, CP

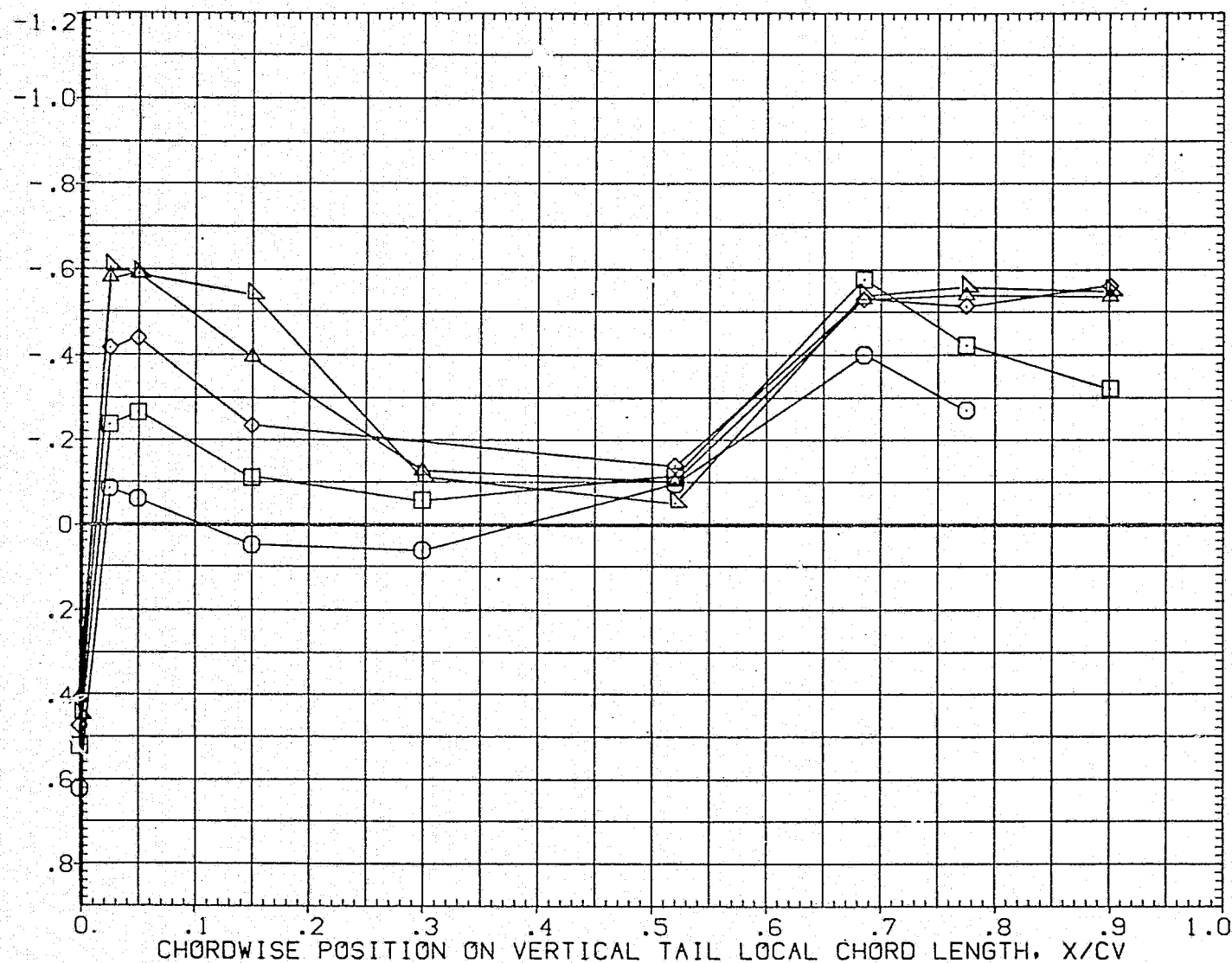


FIG. 70 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=8/4, SPDBRK=0, MACH=1.25

ARC11-019 1A81 LVAP(ELHL SEALED) LEFT VERTICAL (IETV11)

SYMBOL	Z/BV	BETA0	ALPHA0
○	.158	-4.000	4.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

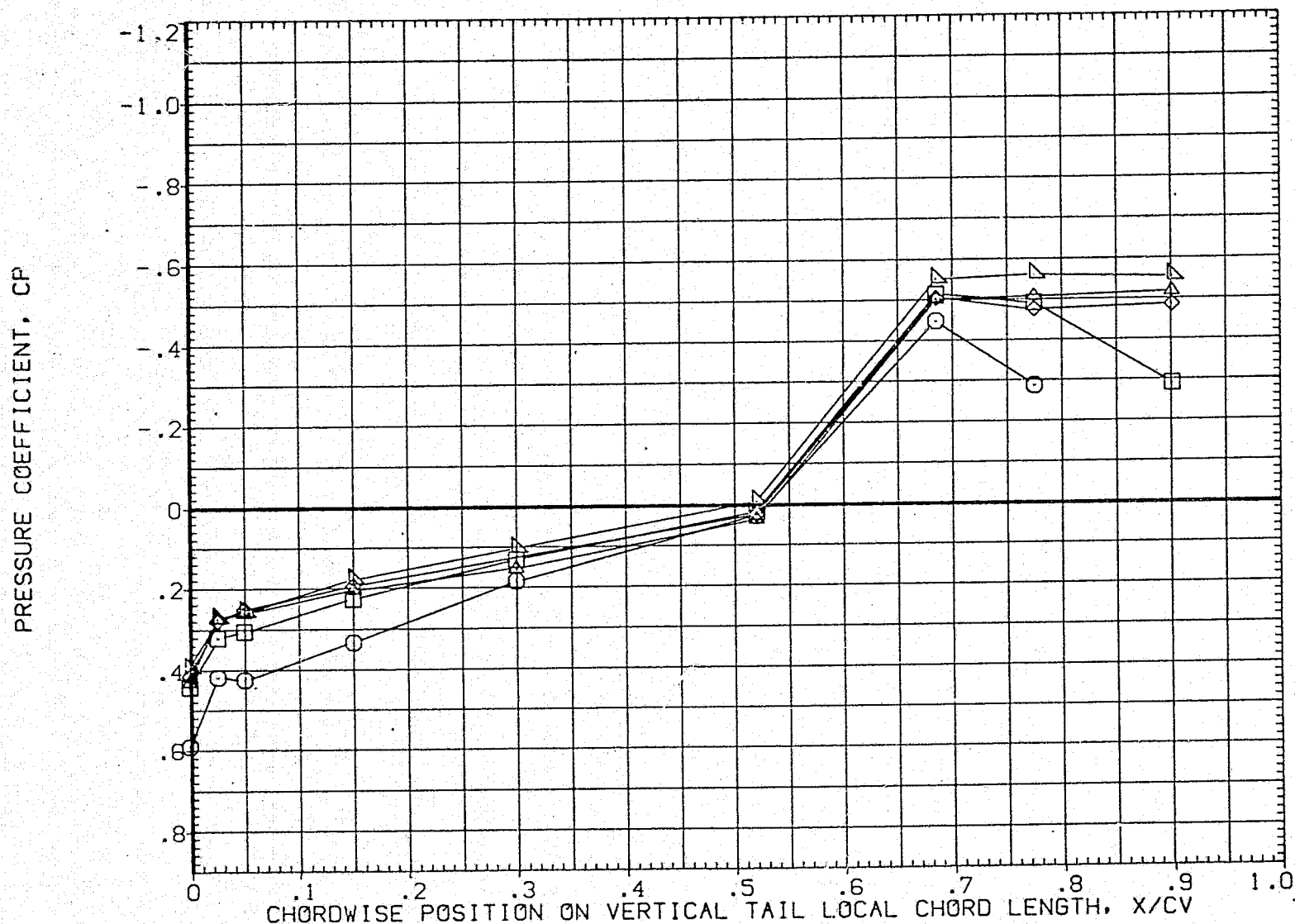


FIG. 70 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=8/4, SPDBRK=0, MACH=1.25

ARC11-019 IA81 LVAP(ELHL SEALED) LEFT VERTICAL (IETV11)

SYMBOL	Z/BV	BETA0	ALPHA0
○	.158	.000	4.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

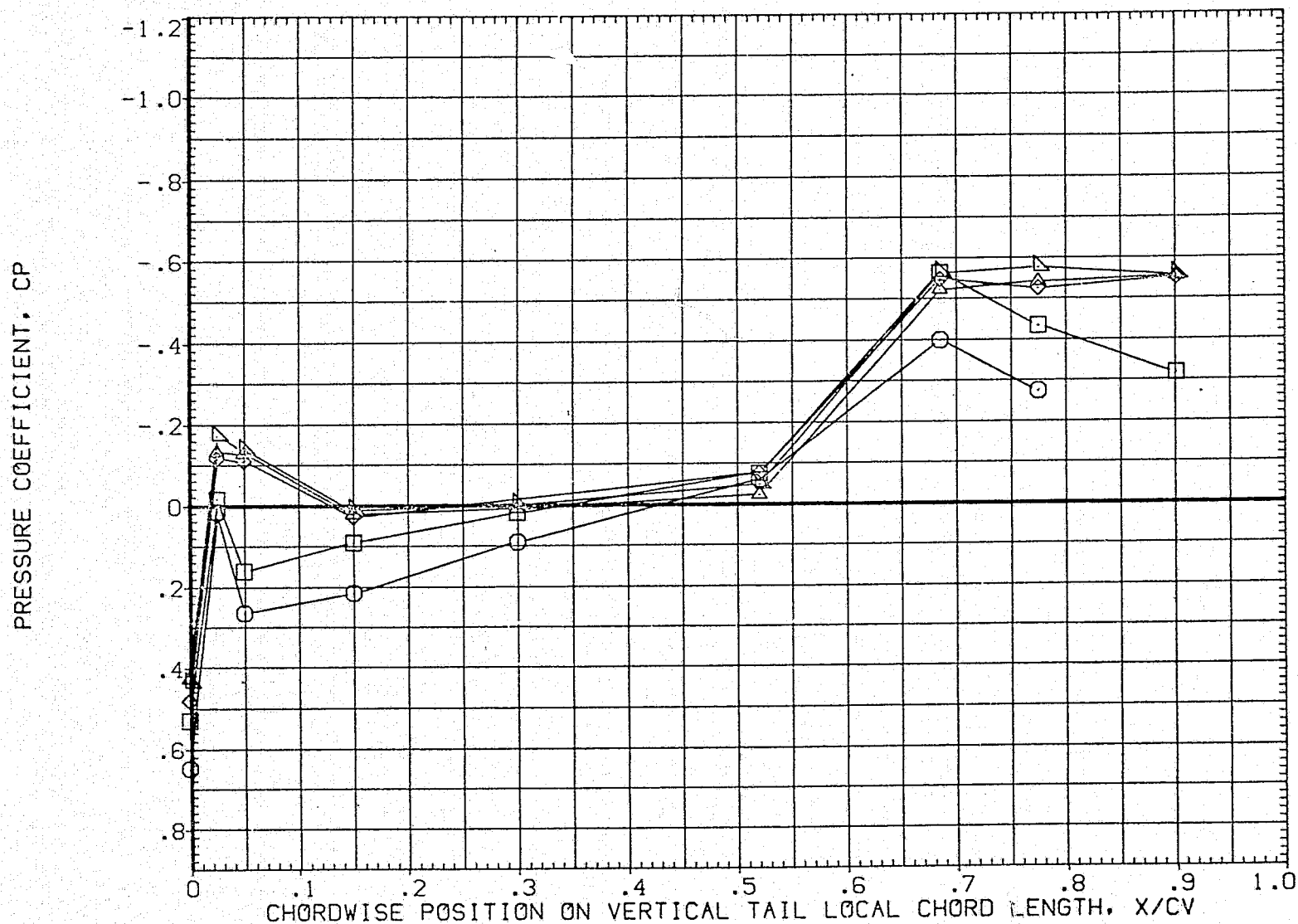


FIG. 70 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=8/4, SPDBRK=0, MACH=1.25

ARC11-019 IA81 LVAP(ELHL SEALED) LEFT VERTICAL (IETV11)

SYMBOL	Z/BV	BETA0	ALPHA0
○	.158	4.000	4.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

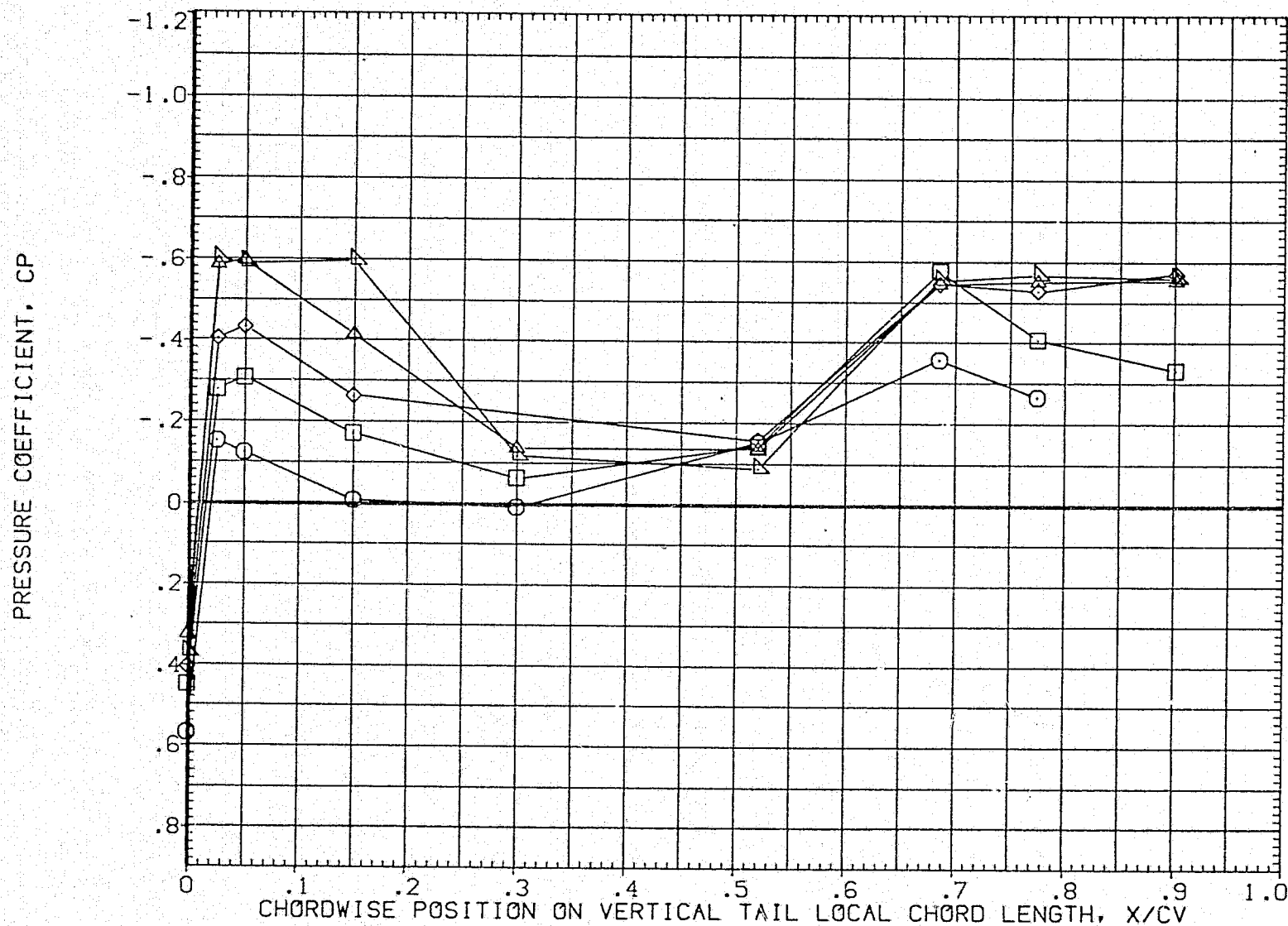


FIG. 70 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON 1/0=8/4, SPDBRK=0, MACH=1.25

ARC11-019 1A81 LVAP(ELHL SEALED) LEFT VERTICAL (IETV12)

SYMBOL	Z/BV	BETA0	ALPHA0
○	.158	-4.000	-4.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-1B	8.000	ELV-0B	.000
RUDDER	.000	SPDBRK	.000

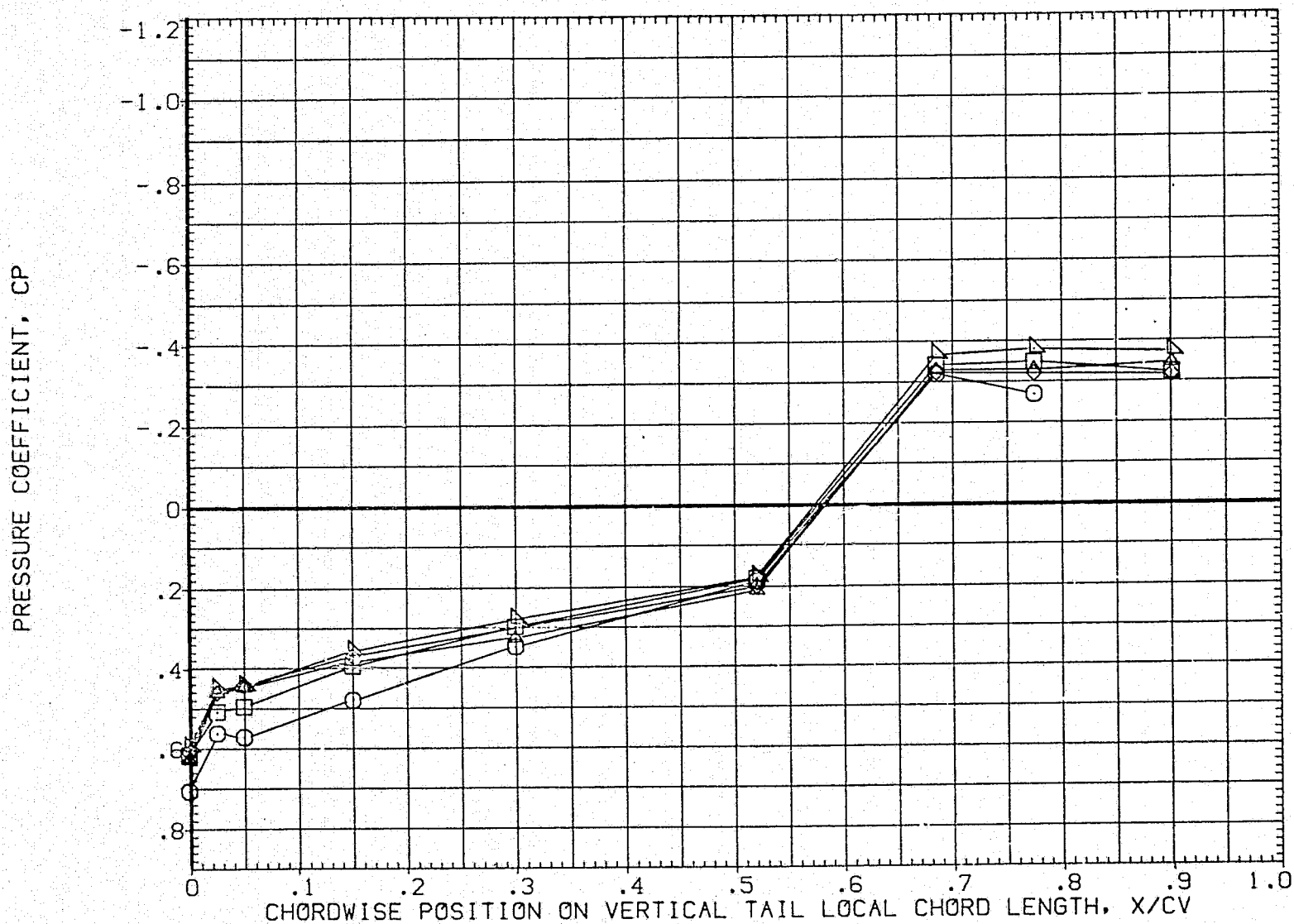


FIG. 71 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=8/0, SPDBRK=0, MACH=1.4

ARC11-019 IA81 LVAP(ELHL SEALED) LEFT VERTICAL (IETV12)

SYMBOL	Z/BV	BETA0	ALPHA0	PARAMETRIC VALUES			
○	.158	.000	-4.000	MACH	1.400	RN/FT	2.250
□	.317			ELV-1B	9.000	ELV-2B	.000
◇	.602			RUDDER	.000	SPDBRK	.000
△	.839						
▽	.925						

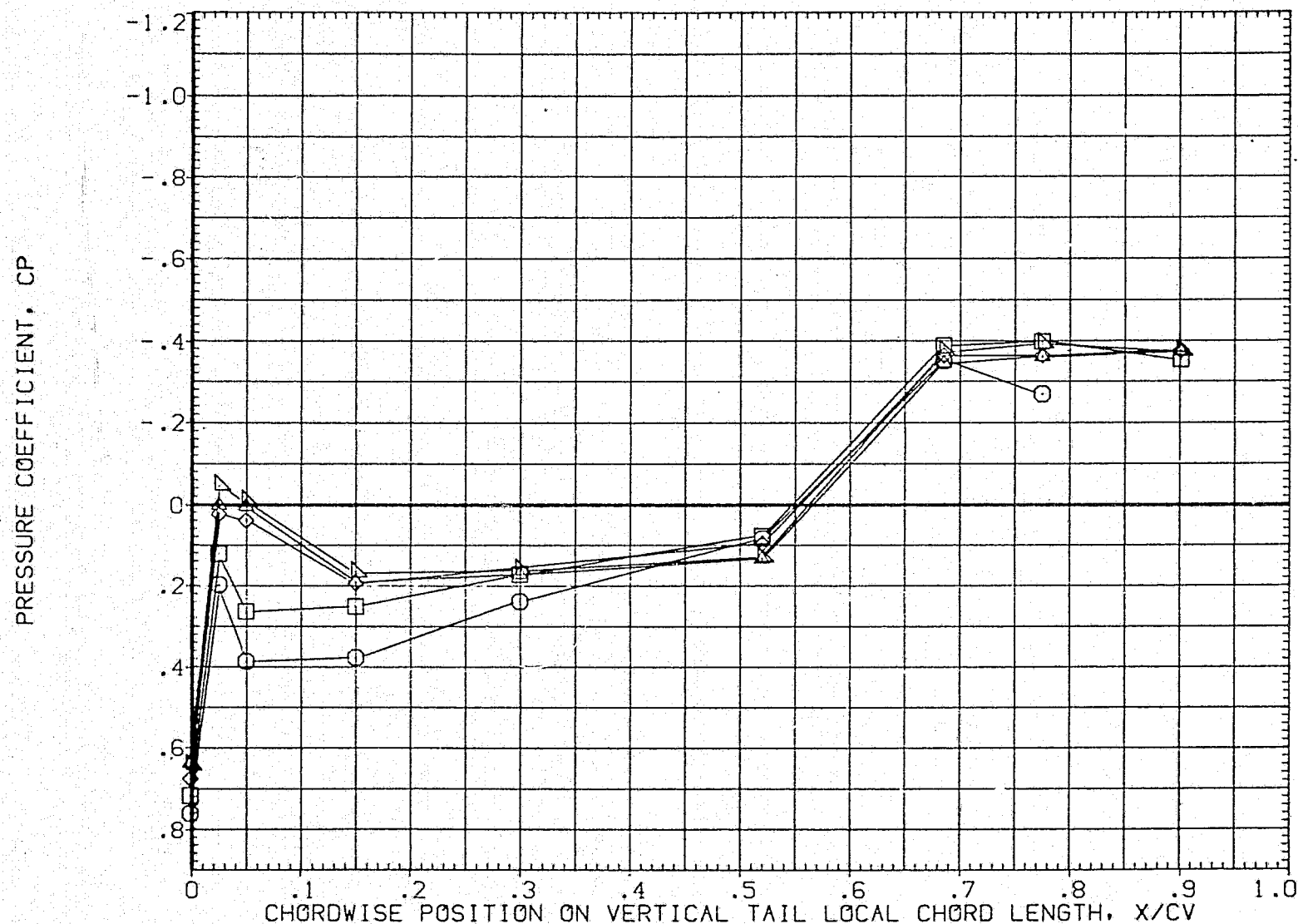


FIG. 71 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=8/0, SPDBRK=0, MACH=1.4

SYMBOL	Z/BV	BETA0	ALPHA0
○	.158	4.000	-4.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-18	8.000	ELV-08	.000
RUDDER	.000	SPDBRK	.000

PRESSURE COEFFICIENT, CP

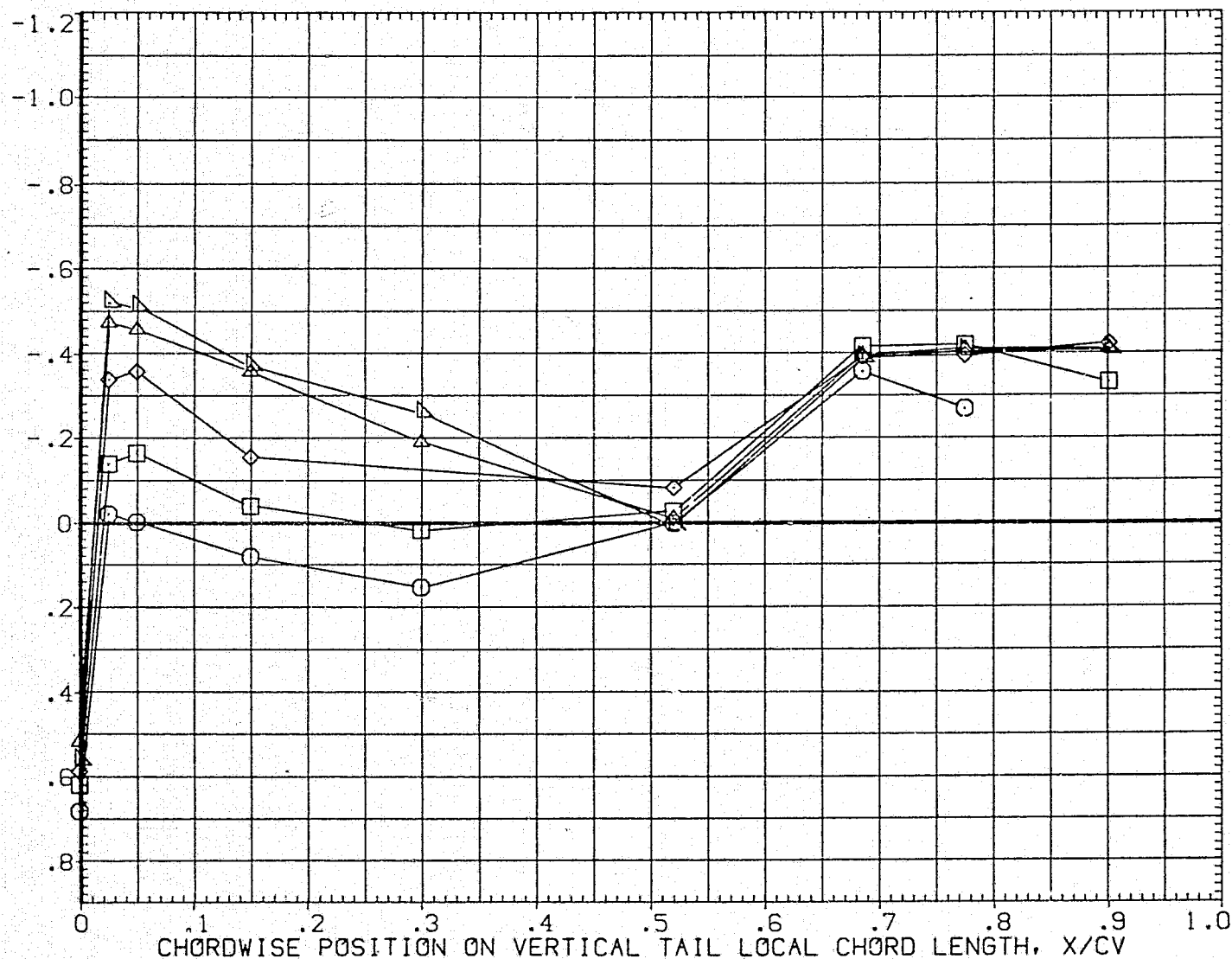


FIG. 71 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON 1/0=8/0, SPDBRK=0, MACH=1.4

ARC11-019 IA81 LVAP(ELHL SEALED) LEFT VERTICAL (IETV12)

SYMBOL	Z/BV	BETA0	ALPHA0
○	.158	-4.000	.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-1B	8.000	ELV-0B	.000
RUDDER	.000	SPDBRK	.000

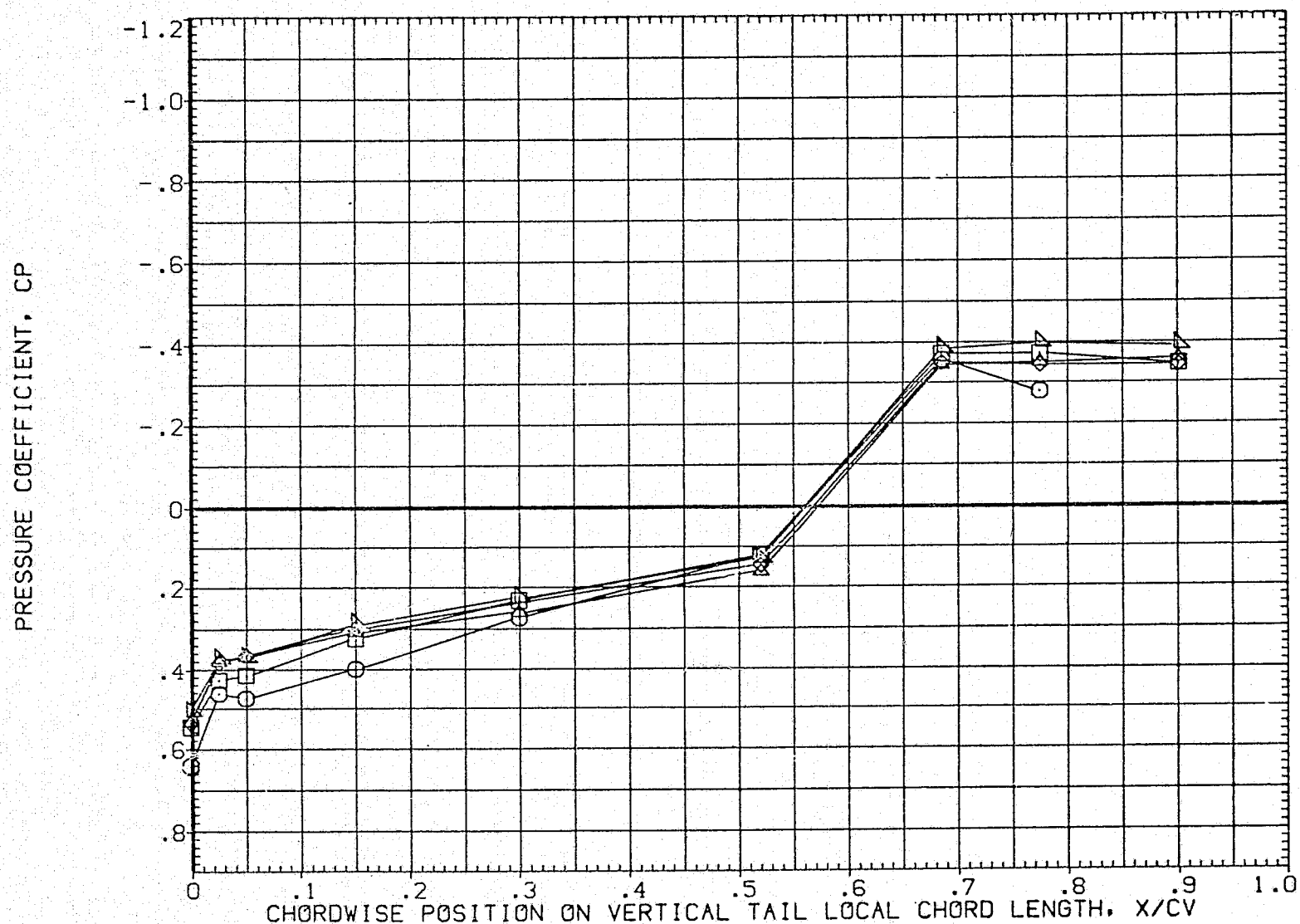


FIG. 71 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=8/0, SPDBRK=0, MACH=1.4

ARC11-019 IA81 LVAP(ELHL SEALED) LEFT VERTICAL (IETV12)

SYMBOL	Z/BV	BETA0	ALPHA0
○	.158	.000	.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-1B	8.000	ELV-0B	.000
RUDDER	.000	SPDBRK	.000

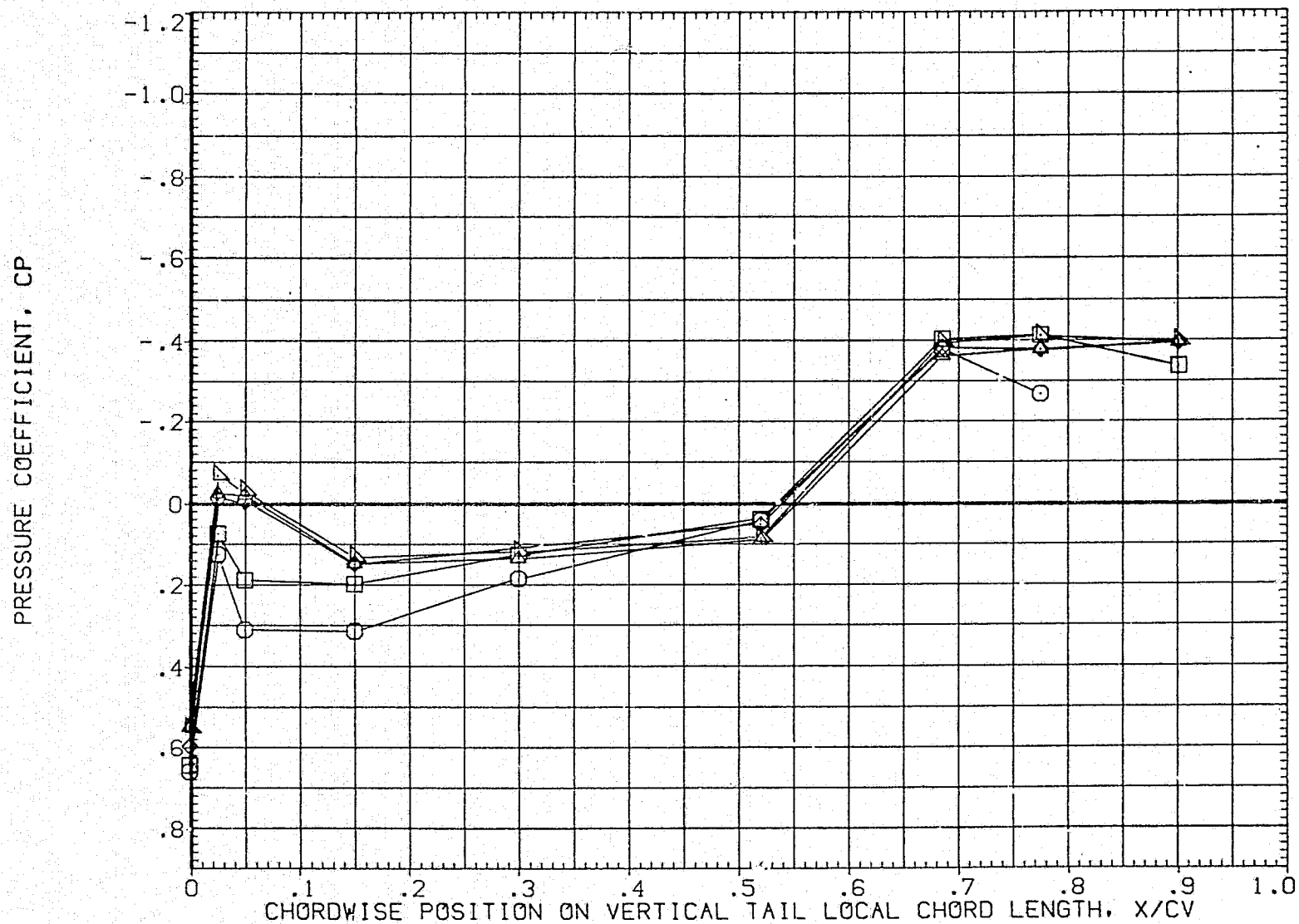


FIG. 71 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON 1/0=8/0, SPDBRK=0, MACH=1.4

ARC11-019 IA81 LVAP(ELHL SEALED) LEFT VERTICAL (IETV12)

SYMBOL

○
□
◇
△
▽

Z/BV

.158
.317
.602
.839
.925

BETA0

4.000

ALPHA0

.000

PARAMETRIC VALUES

MACH	1.400	RN/FT	2.250
ELV-IB	8.000	ELV-OB	.000
RUDDER	.000	SPDBRK	.000

PRESSURE COEFFICIENT, CP

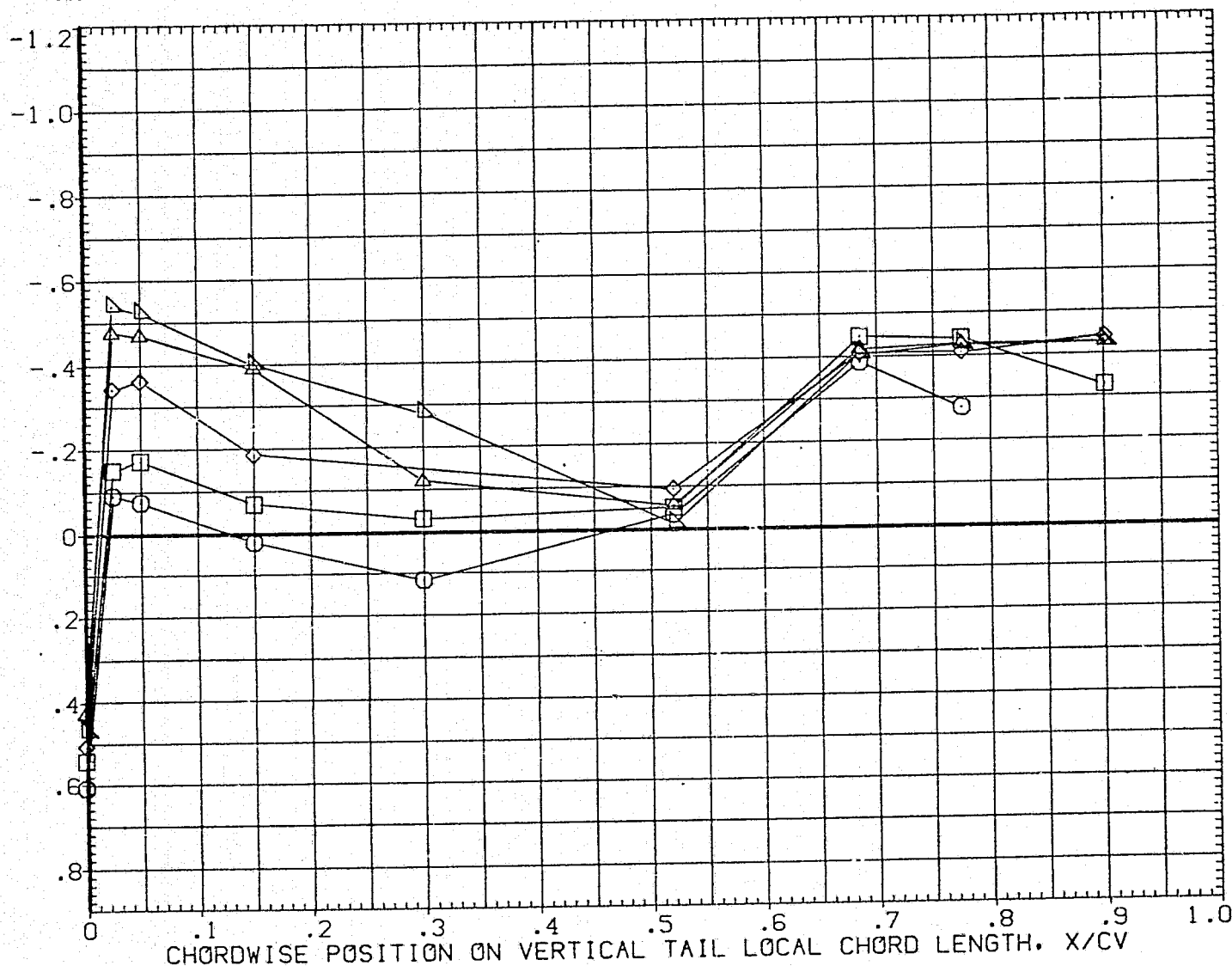


FIG. 71 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=8/0, SPDBRK=0, MACH=1.4

ARC11-019 IA81 LVAP(ELHL SEALED) LEFT VERTICAL (IETV12)

SYMBOL	Z/BV	BETA0	ALPHA0
○	.158	-4.000	4.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-IB	8.000	ELV-OB	.000
RUDDER	.000	SPDBRK	.000

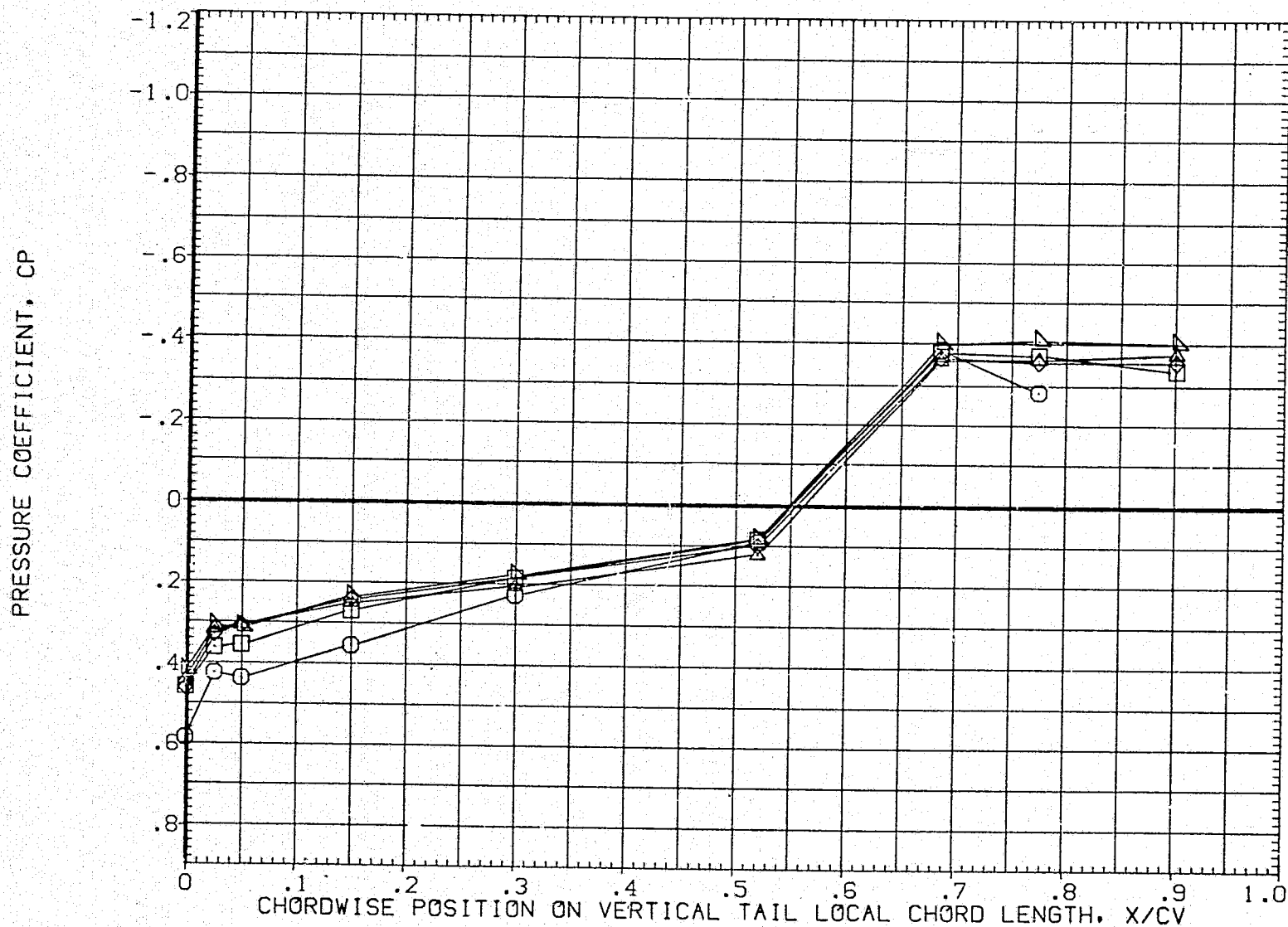


FIG. 71 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=8/0, SPDBRK=0, MACH=1.4

ARC11-019 IA81 LVAP(ELHL SEALED) LEFT VERTICAL (IETV12)

SYMBOL	Z/BV	BETA0	ALPHA0
○	.158	.000	4.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-1B	8.000	ELV-0B	.000
RUDDER	.000	SPDBRK	.000

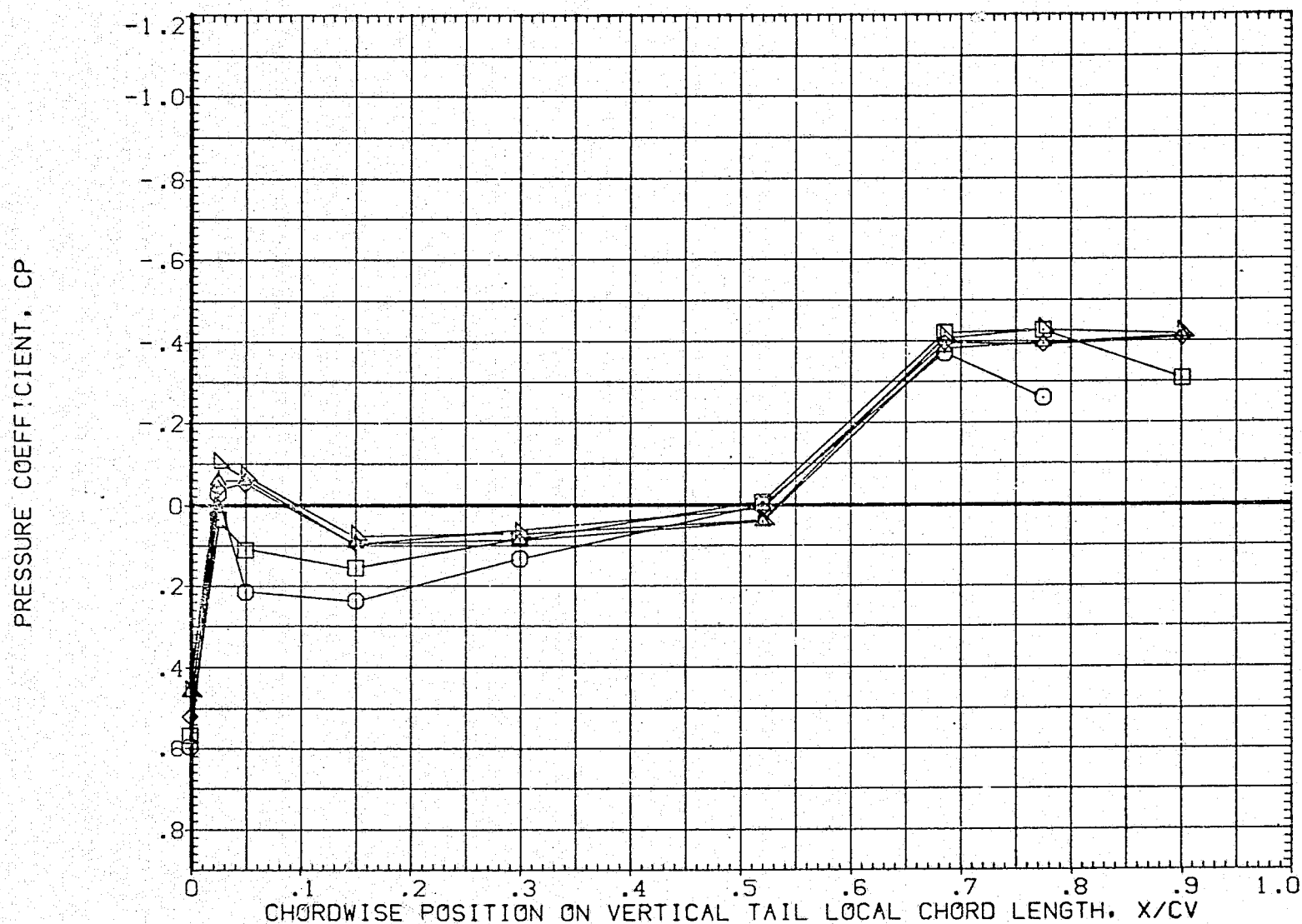


FIG. 71 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=8/0, SPDBRK=0, MACH=1.4

ARC11-019 1A81 LVAP(ELHL SEALED) LEFT VERTICAL (IETV12)

SYMBOL	Z/BV	BETA0	ALPHA0
○	.158	4.000	4.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-18	8.000	ELV-08	.000
RUDDER	.000	SPDBRK	.000

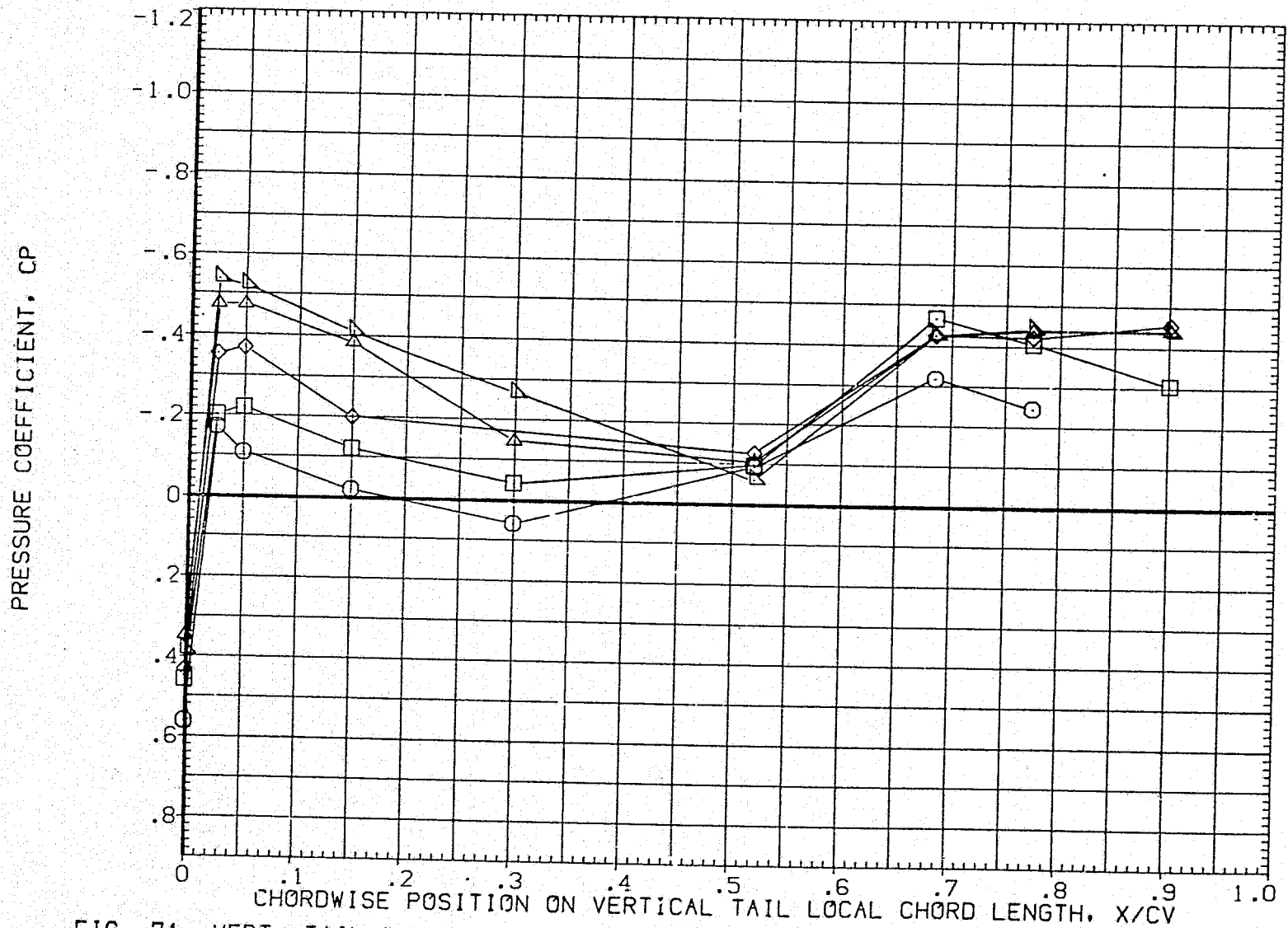


FIG. 71 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON 1/0=8/0, SPDBRK=0, MACH=1.4.

SYMBOL	Y/BW	BETA0	ALPHA0
○	.235	-4.000	-4.000
□	.299		
◇	.364		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU06)	OPEN	ARC11-019 IAB1 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETU06)	FLAGGED	ARC11-019 IAB1 LVAP(ELHL UNSEALD) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

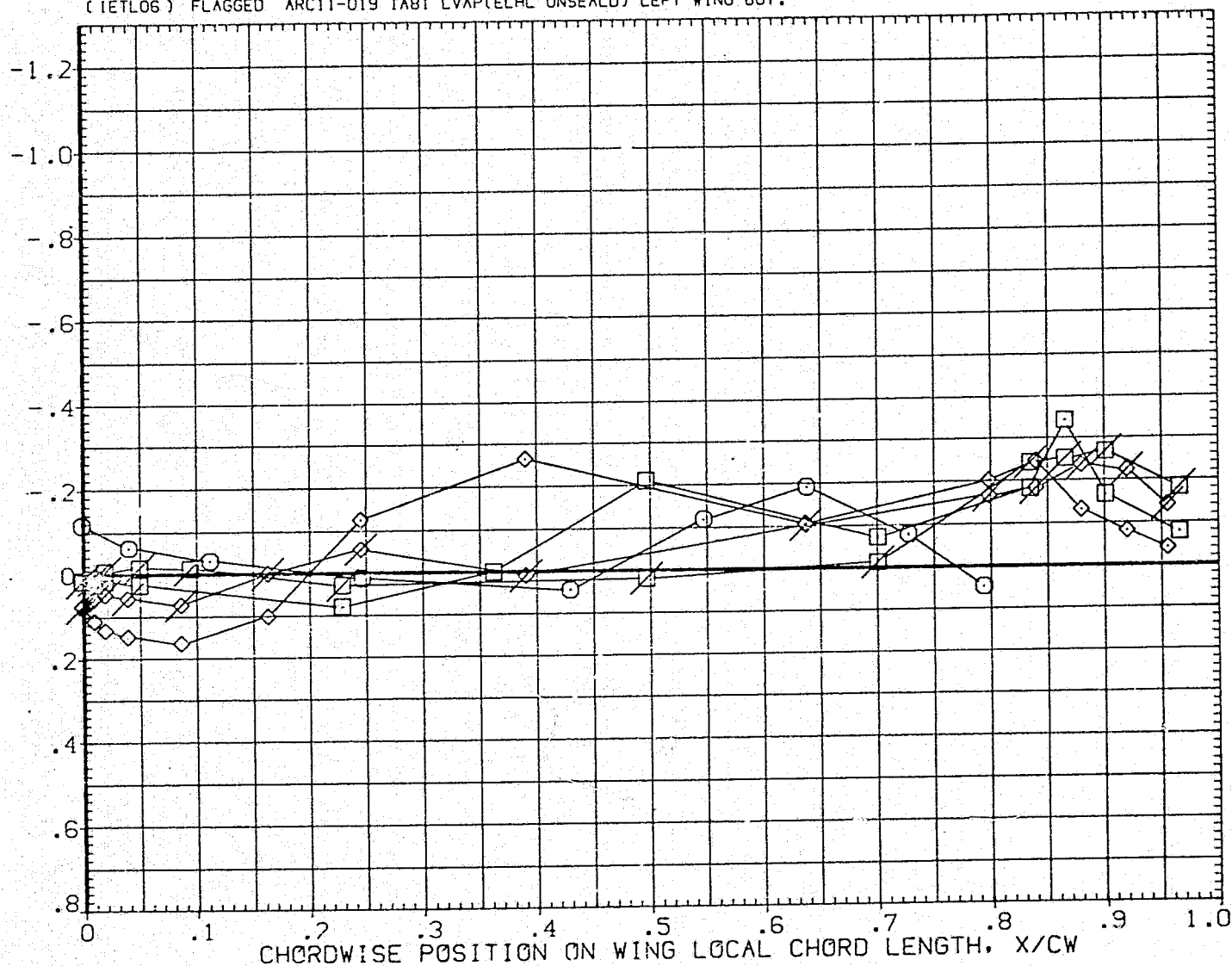


FIG. 72 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

SYMBOL	Y/BW	BETA0	ALPHA0
○	.427	-4.000	-4.000
□	.534		
◇	.673		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(1ETU06)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(1ETL06)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

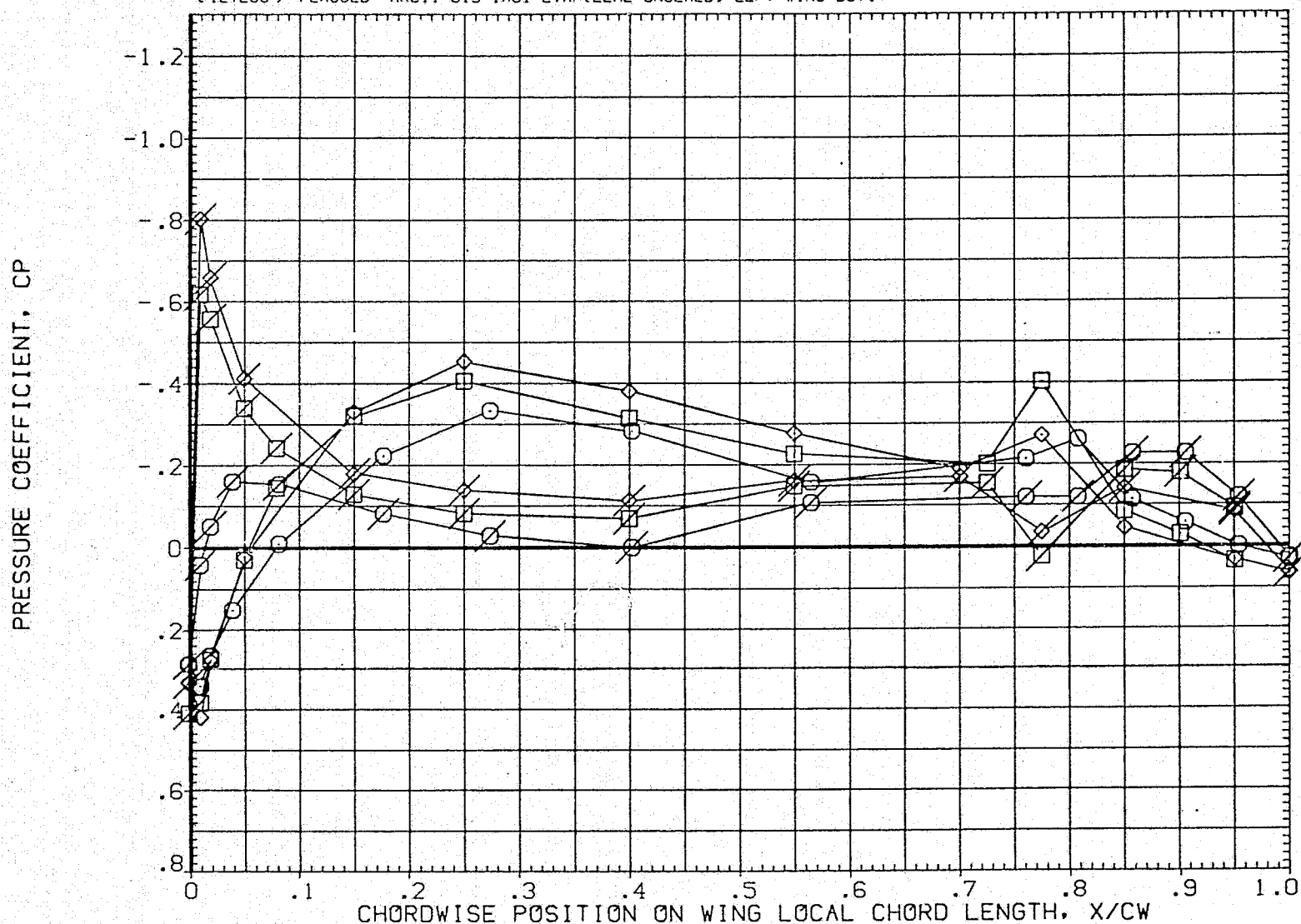


FIG. 72 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

SYMBOL	Y/BW	BETA0	ALPHA0
○	.780	-4.000	-4.000
□	.887		
◇	.972		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(1ETU06)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(1ETL06)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

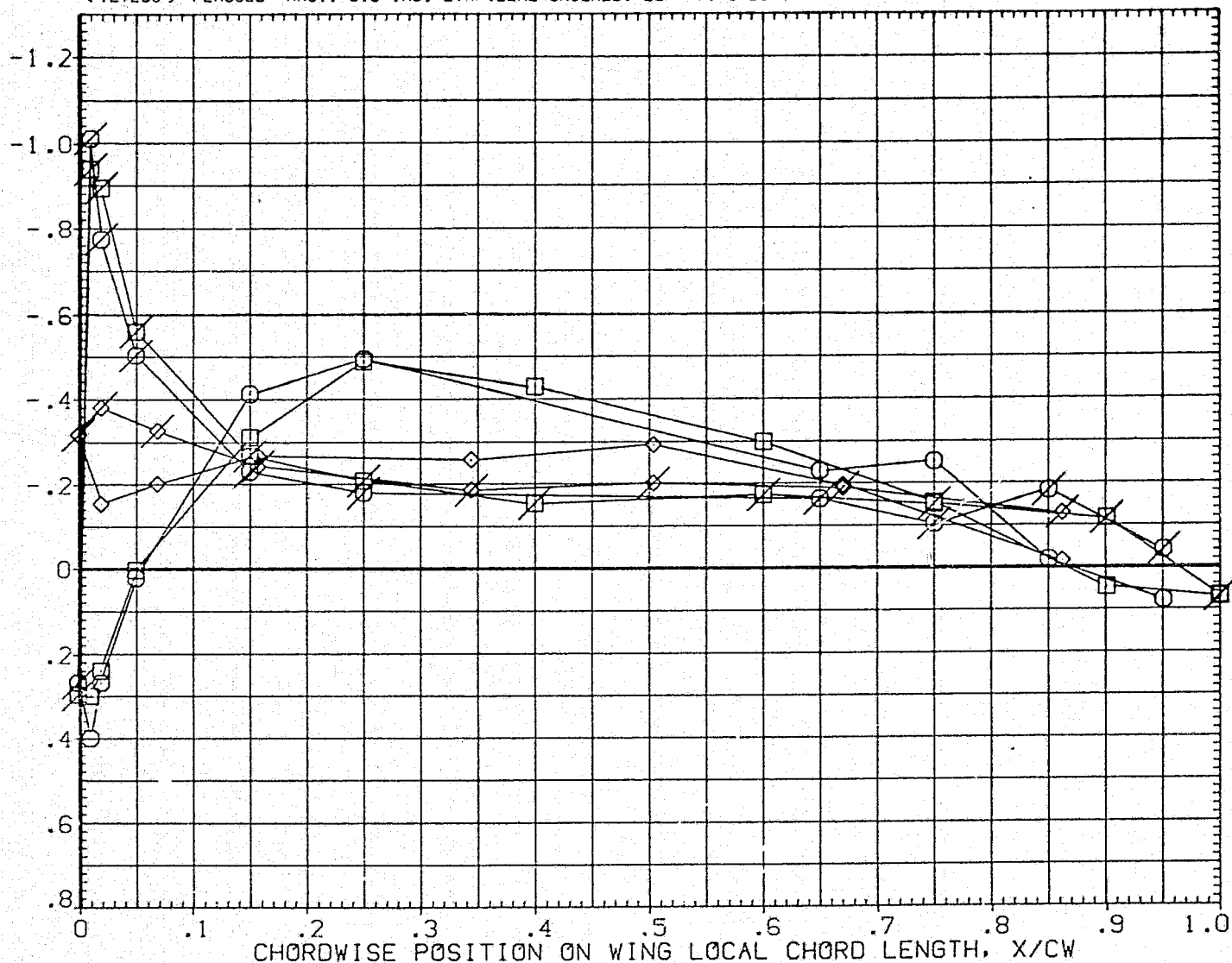


FIG. 72 WING CHORDWISE PRESS. DIST., ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 0.6

SYMBOL	Y/BW	BETA0	ALPHA0
○	.235	.000	-4.000
□	.299		
◇	.364		

PARAMETRIC VALUES		
MACH	.600	RN/FT 2.250
ELV-18	8.000	ELV-08 4.000
RUDDER	.000	SPDBRK .000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(1ETU06)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(1ETL06)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

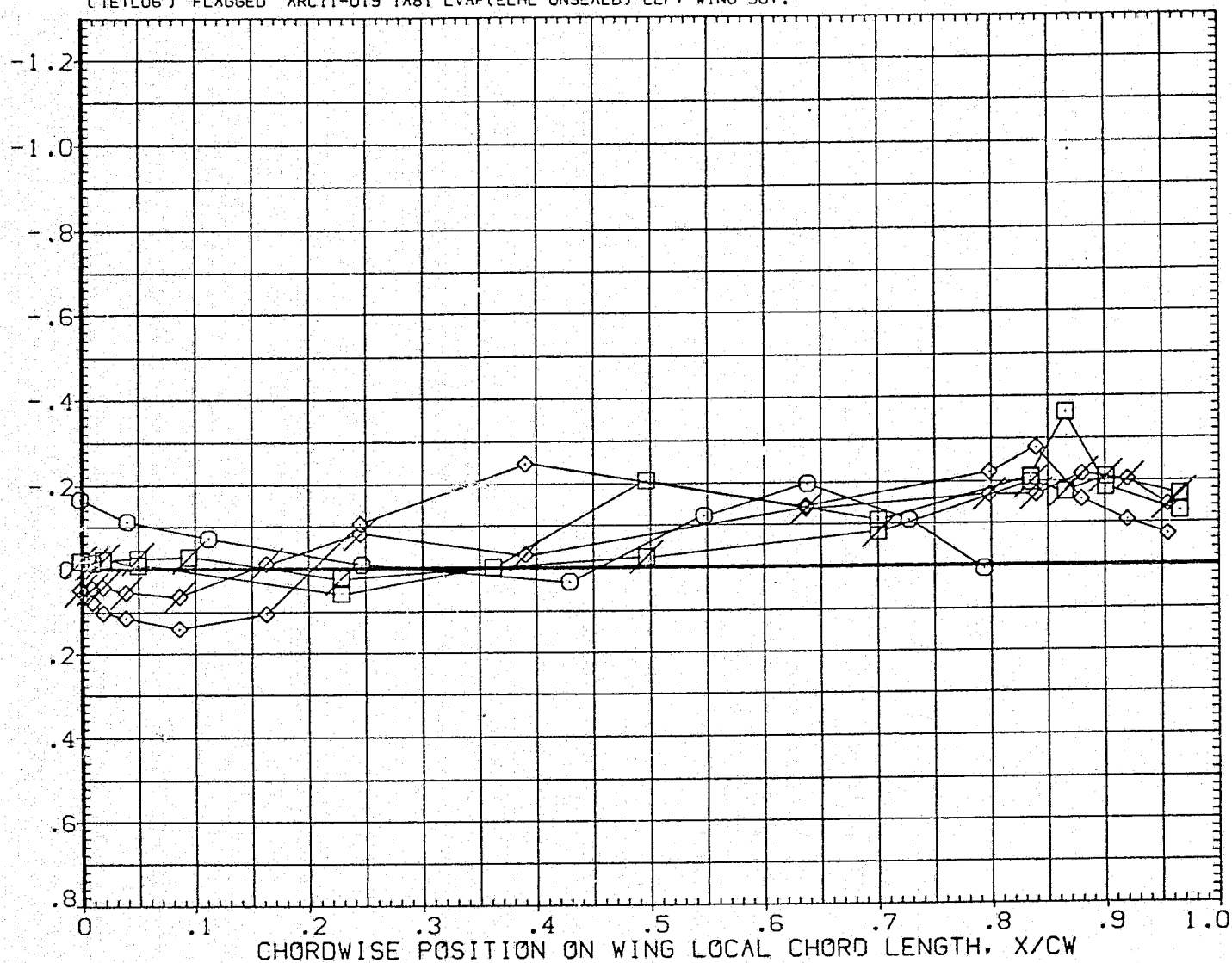


FIG. 72 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

SYMBOL	Y/BW	BETA0	ALPHA0
○	.427	.000	-4.000
□	.534		
◇	.673		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(1ETU06)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(1ETL06)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

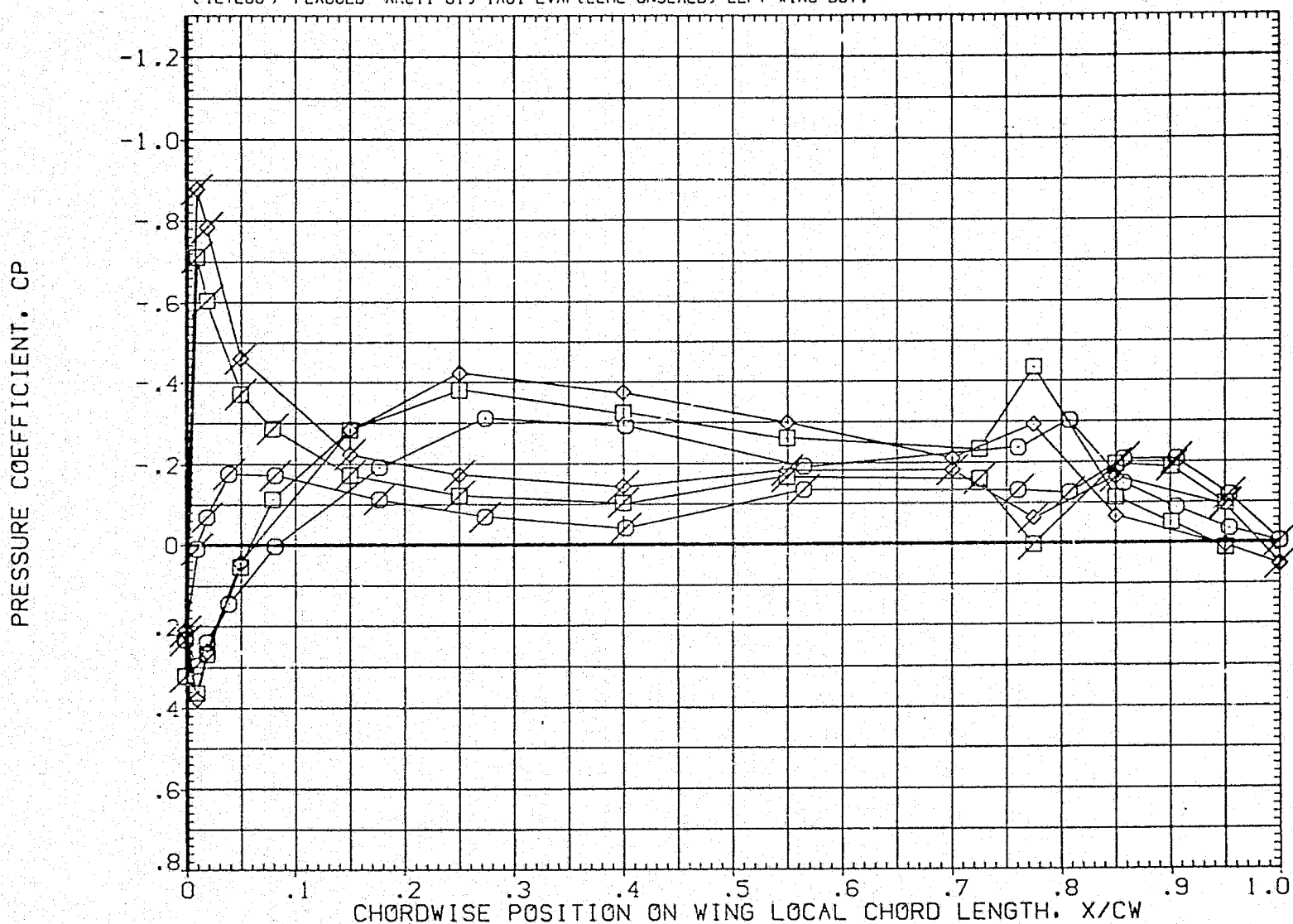


FIG. 72 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

SYMBOL	Y/BW	BETA0	ALPHA0
○	.780	.000	-4.000
□	.887		
◇	.972		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.25G
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(JETU06)	OPEN	ARC11-019 IAB1 LVAP(ELHL UNSEALD) LEFT WING TOP
(JETL06)	FLAGGED	ARC11-019 IAB1 LVAP(ELHL UNSEALD) LEFT WING BOT.

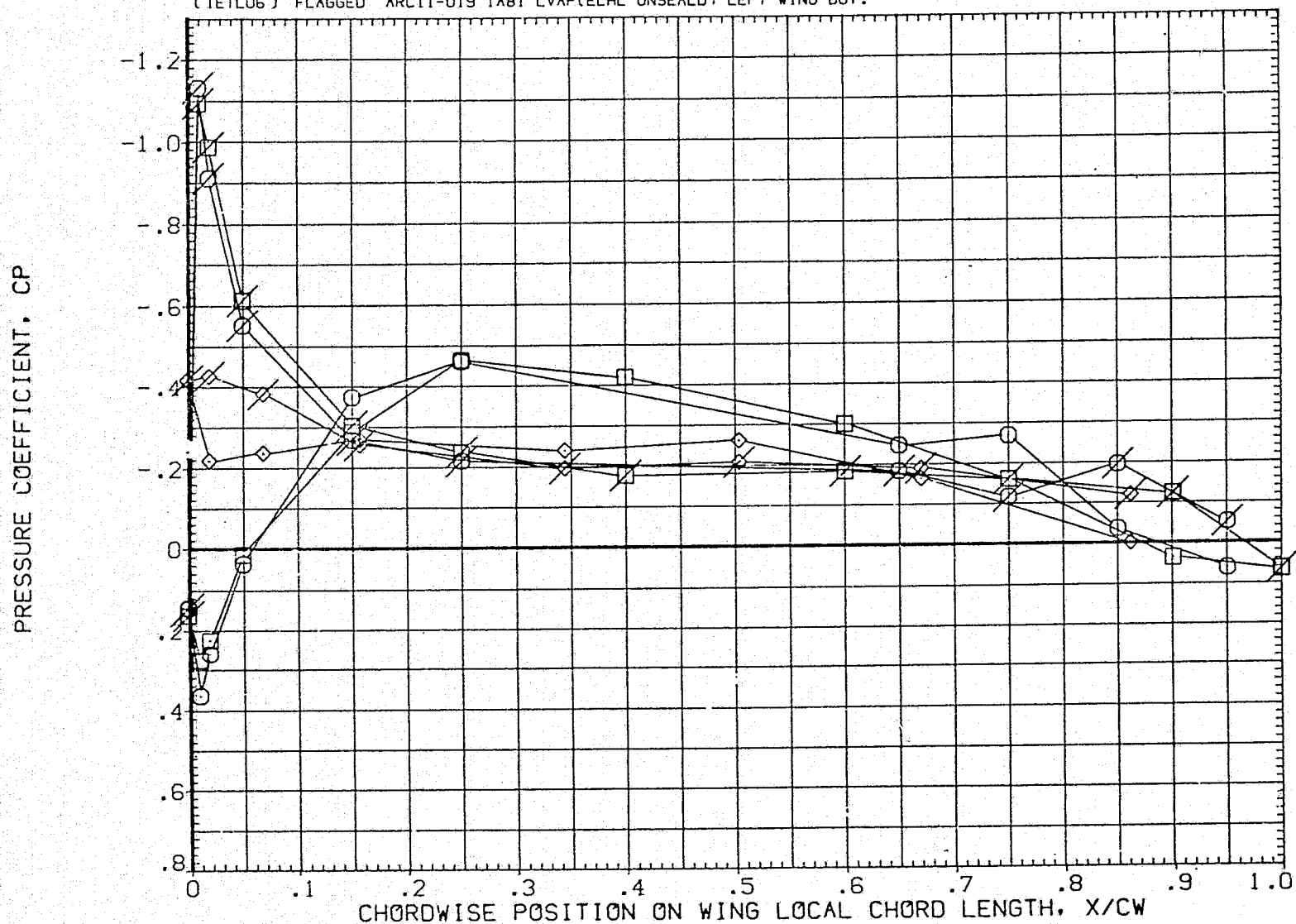


FIG. 72 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

SYMBOL	Y/BW	BETA0	ALPHA0
○	.235	4.000	-4.000
□	.299		
◇	.364		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU06)	OPEN	ARC11-019 IAS1 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETL06)	FLAGGED	ARC11-019 IAS1 LVAP(ELHL UNSEALD) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

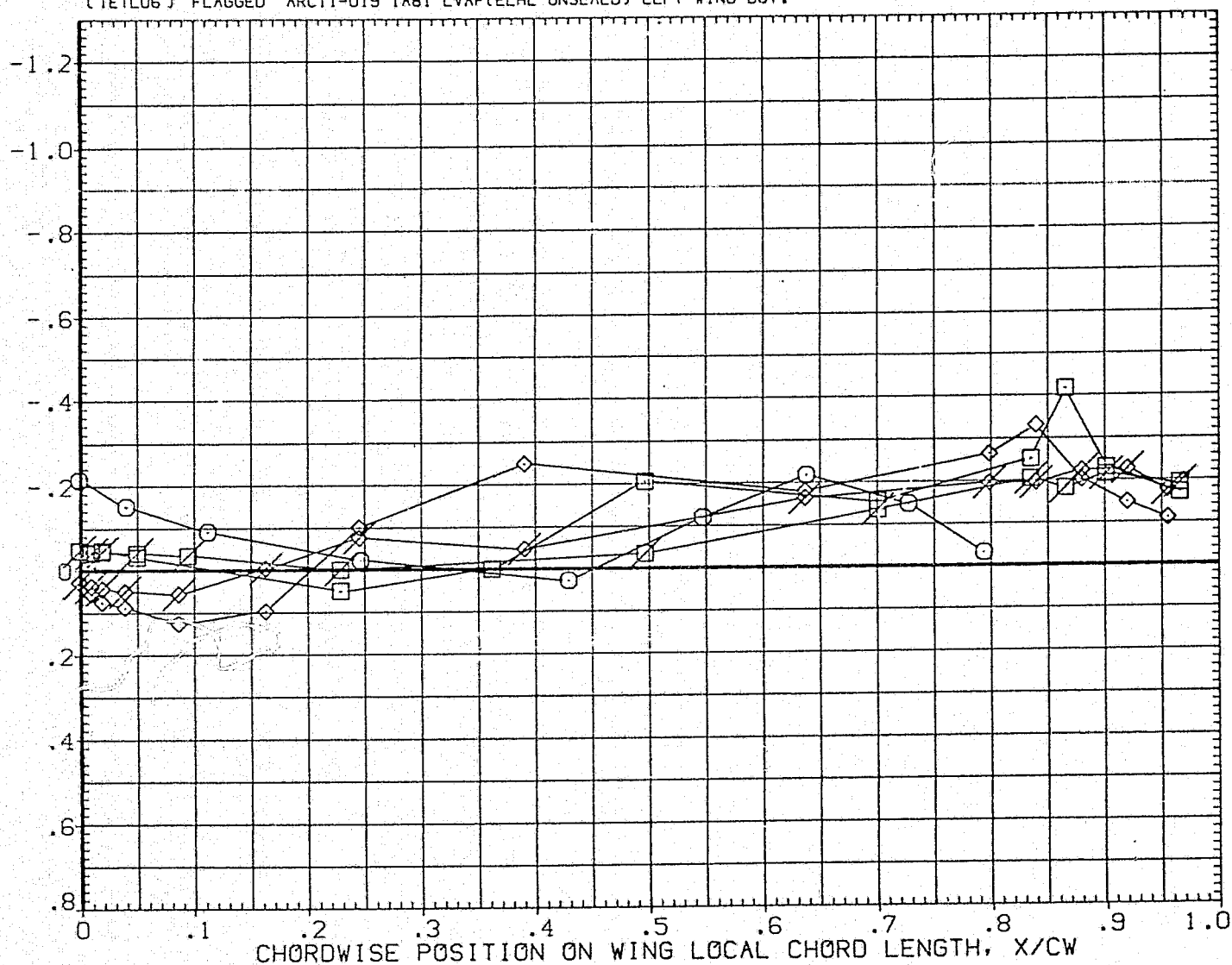


FIG. 72 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

SYMBOL	Y/BW	BETA0	ALPHA0
○	.427	4.000	-4.000
□	.534		
◇	.673		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU06)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETL06)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

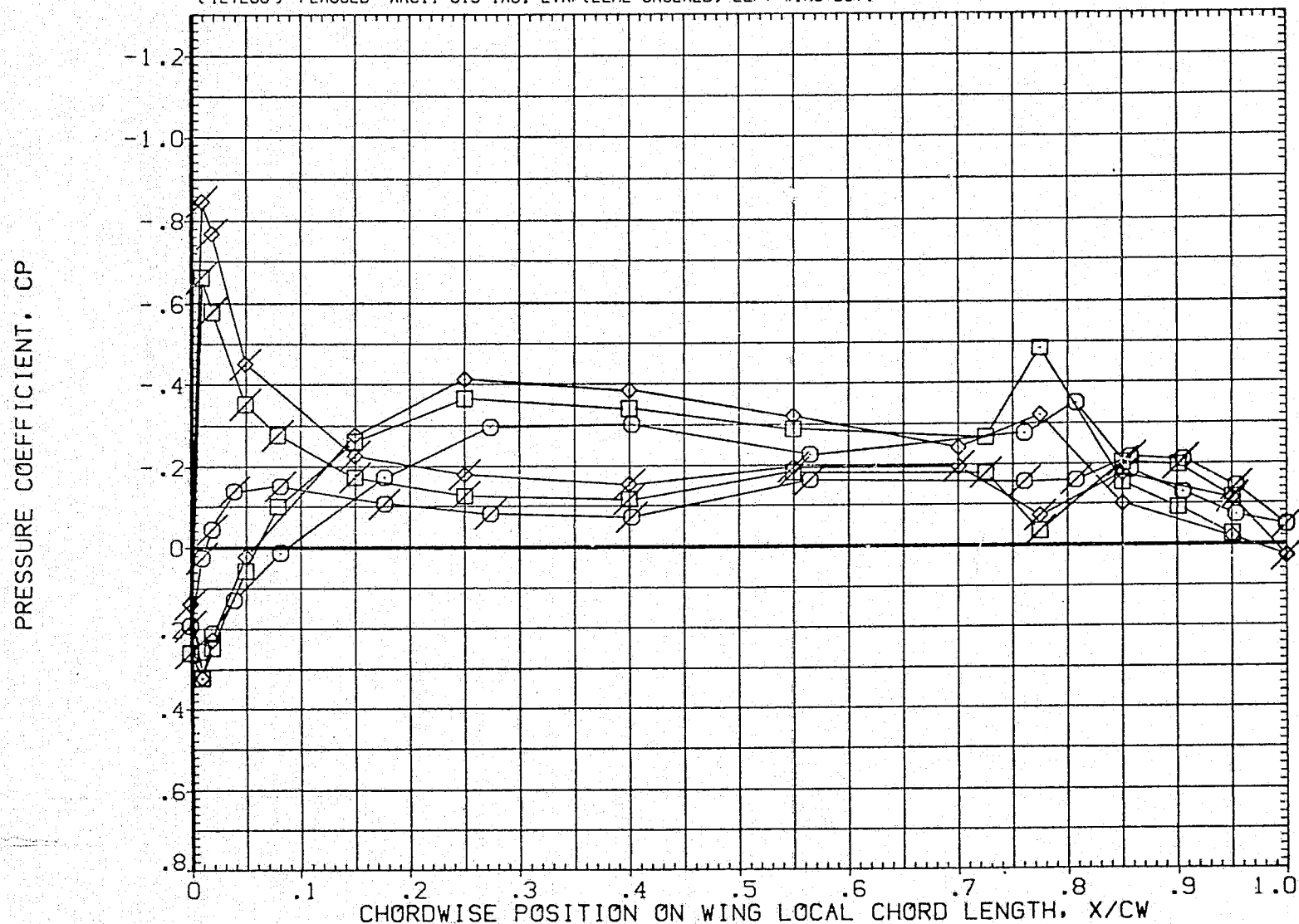


FIG. 72 WING CHORDWISE PRESS. DIST., ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 0.6

SYMBOL	Y/BW	BETA0	ALPHA0
○	.780	4.000	-4.000
□	.887		
◇	.972		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(1ETU06)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(1ETL06)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

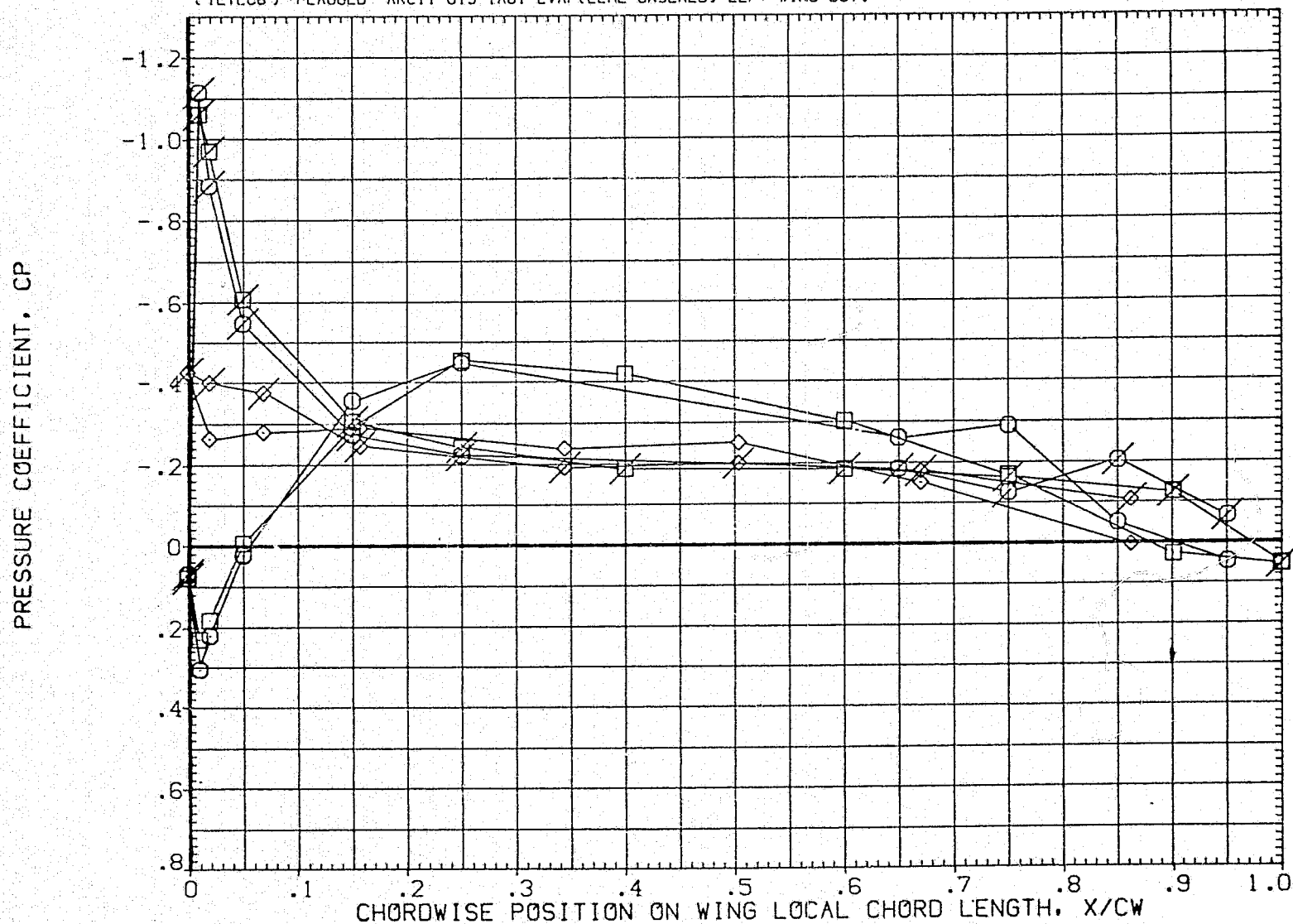


FIG. 72 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

SYMBOL	Y/BW	BETA0	ALPHA0
○	.235	-4.000	.000
□	.299		
◇	.364		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU06)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETL06)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

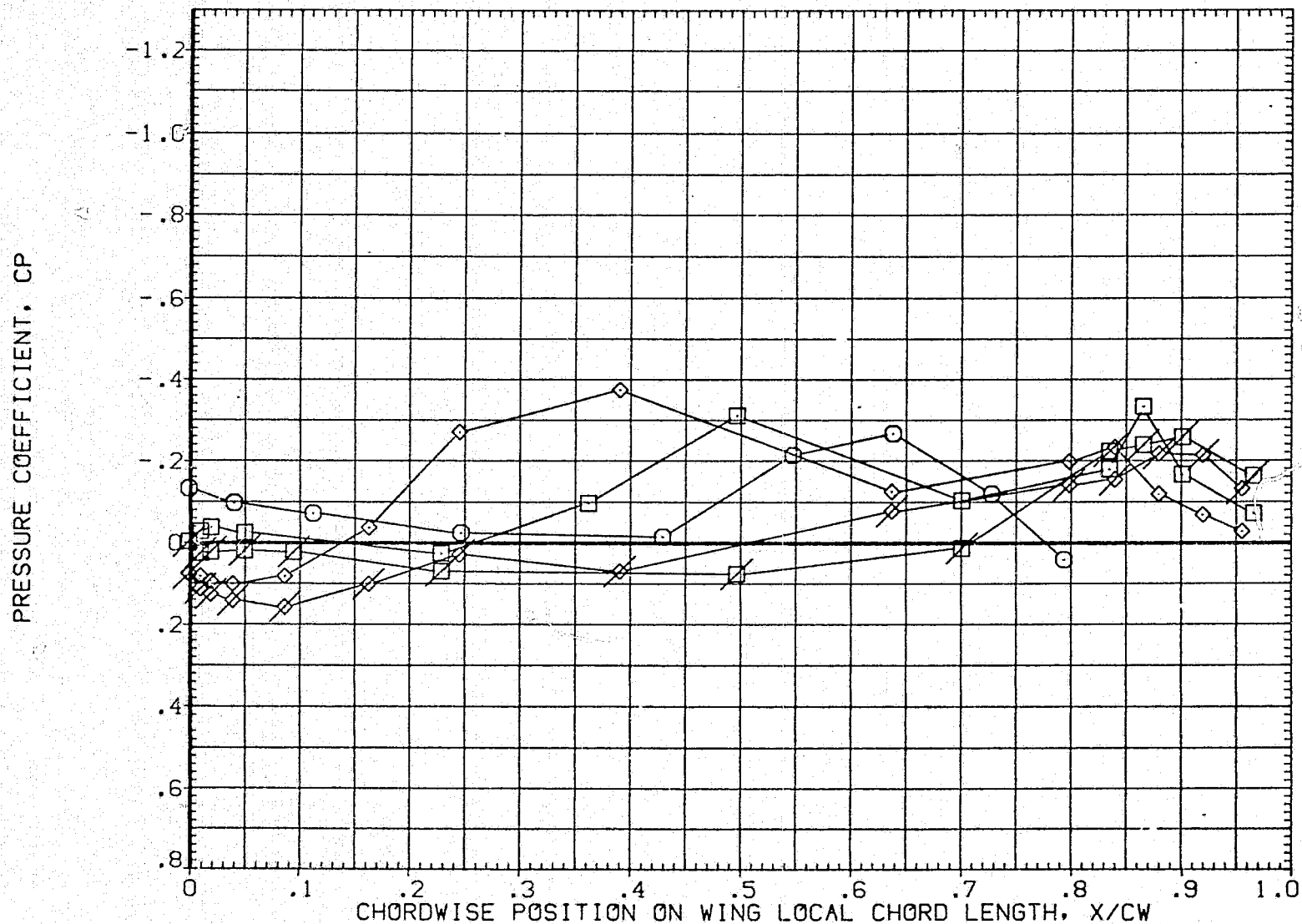


FIG. 72 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

SYMBOL	Y/BW	BETA0	ALPHA0
○	.427	-4.000	.000
□	.534		
◇	.673		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-1B	8.000	ELV-DB	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU06)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETL06)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

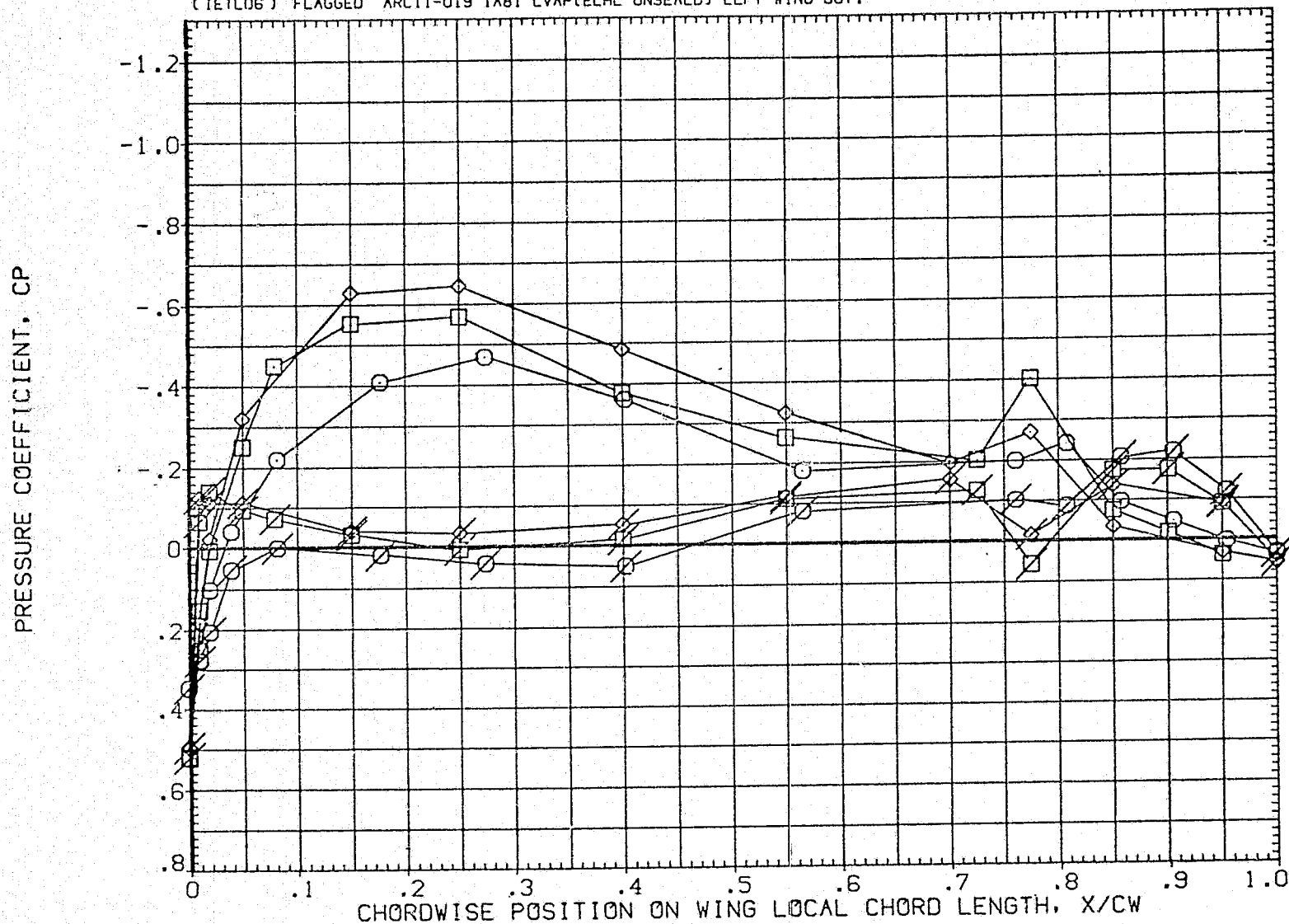


FIG. 72 WING CHORDWISE PRESS. DIST., ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 0.6

SYMBOL	Y/BW	BETA0	ALPHA0
○	.780	-4.000	.000
□	.887		
◇	.972		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU06)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETL06)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

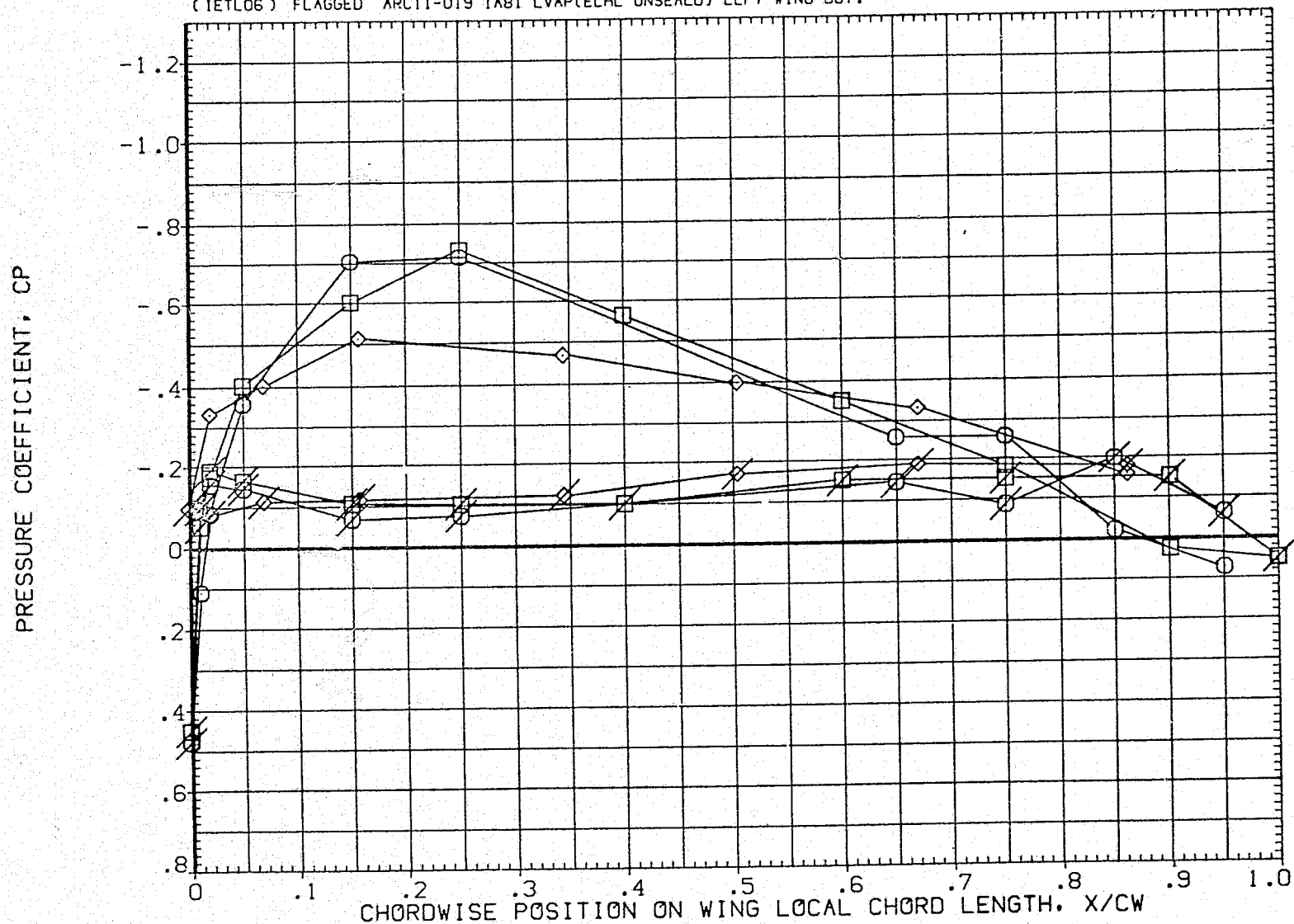


FIG. 72 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

SYMBOL	Y/BW	BETA0	ALPHA0
○	.235	.000	.000
□	.299		
◇	.364		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU06)	OPEN	ARC11-019 IAB1 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETL06)	FLAGGED	ARC11-019 IAB1 LVAP(ELHL UNSEALD) LEFT WING BOT.

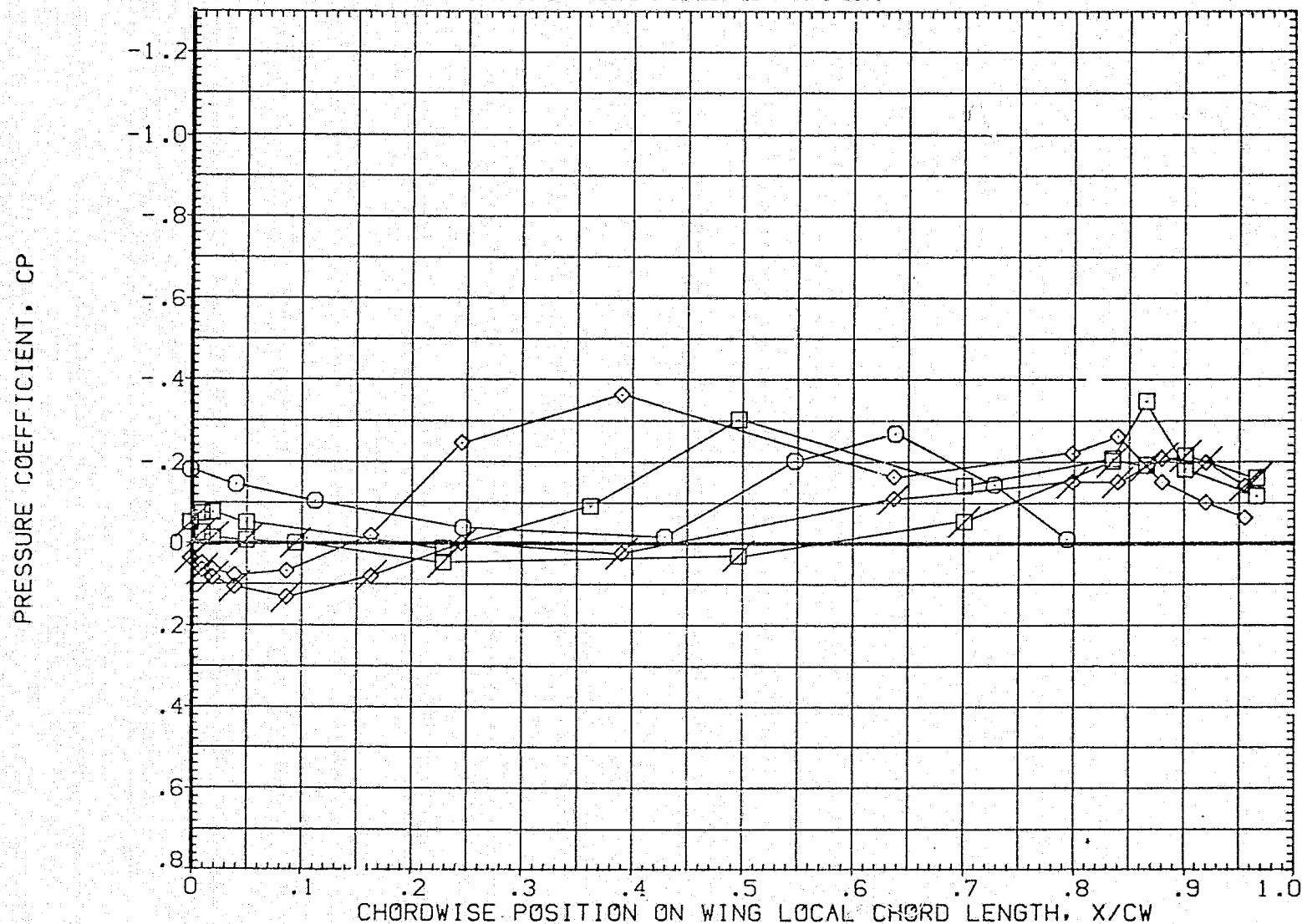


FIG. 72 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

SYMBOL	Y/BW	BETA0	ALPHA0
○	.427	.000	.000
□	.534		
◇	.673		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU06)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETL06)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

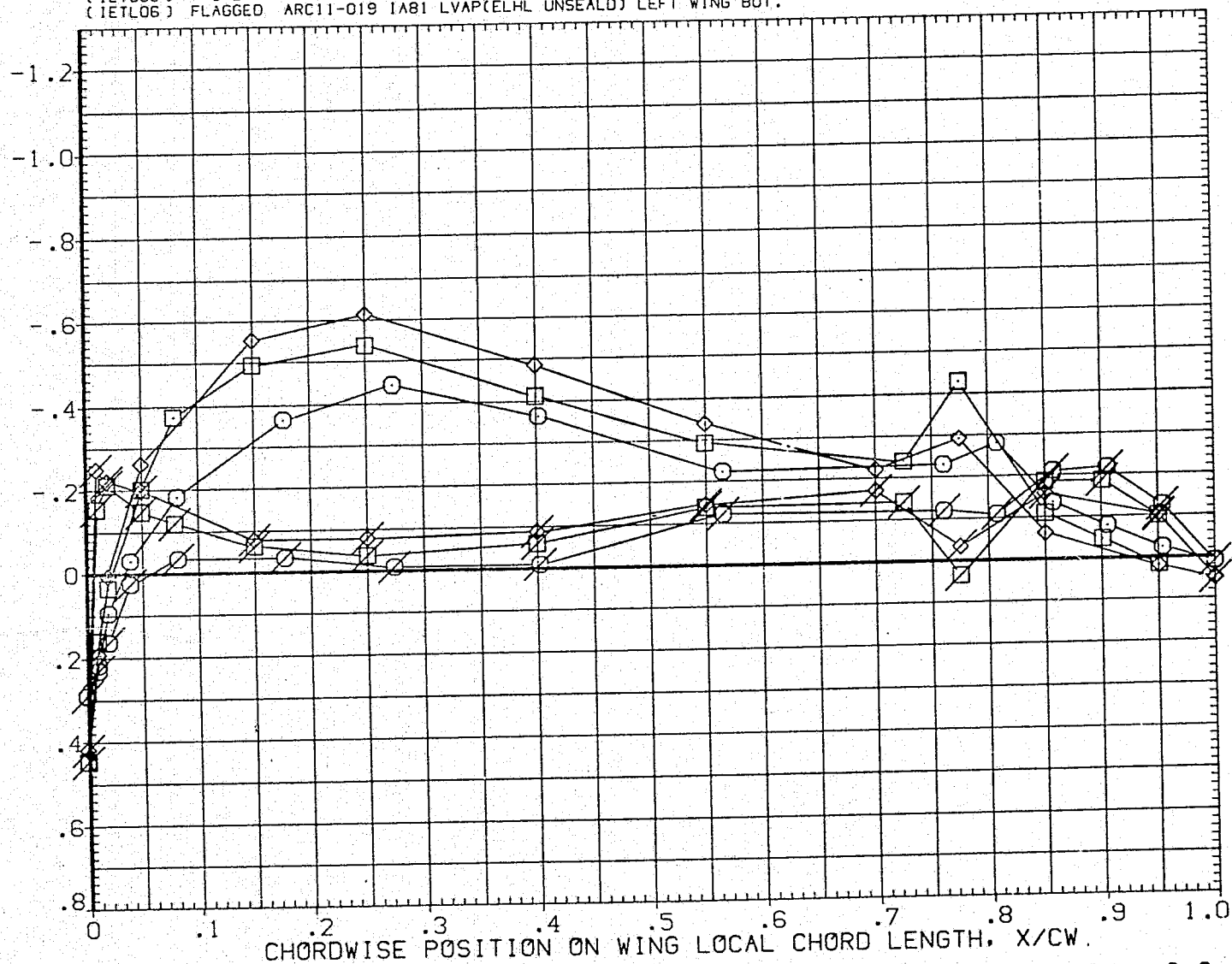


FIG. 72 WING CHORDWISE PRESS. DIST., ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 0.6

SYMBOL	Y/BW	BETA0	ALPHA0
○	.780	.000	.000
□	.887		
◇	.972		

PARAMETRIC VALUES		
MACH	.600	RN/FT 2.250
ELV-1B	8.000	ELV-1B 4.000
RUDDER	.000	SPDBRK .000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(1ETUC6)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(1ETUC6)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

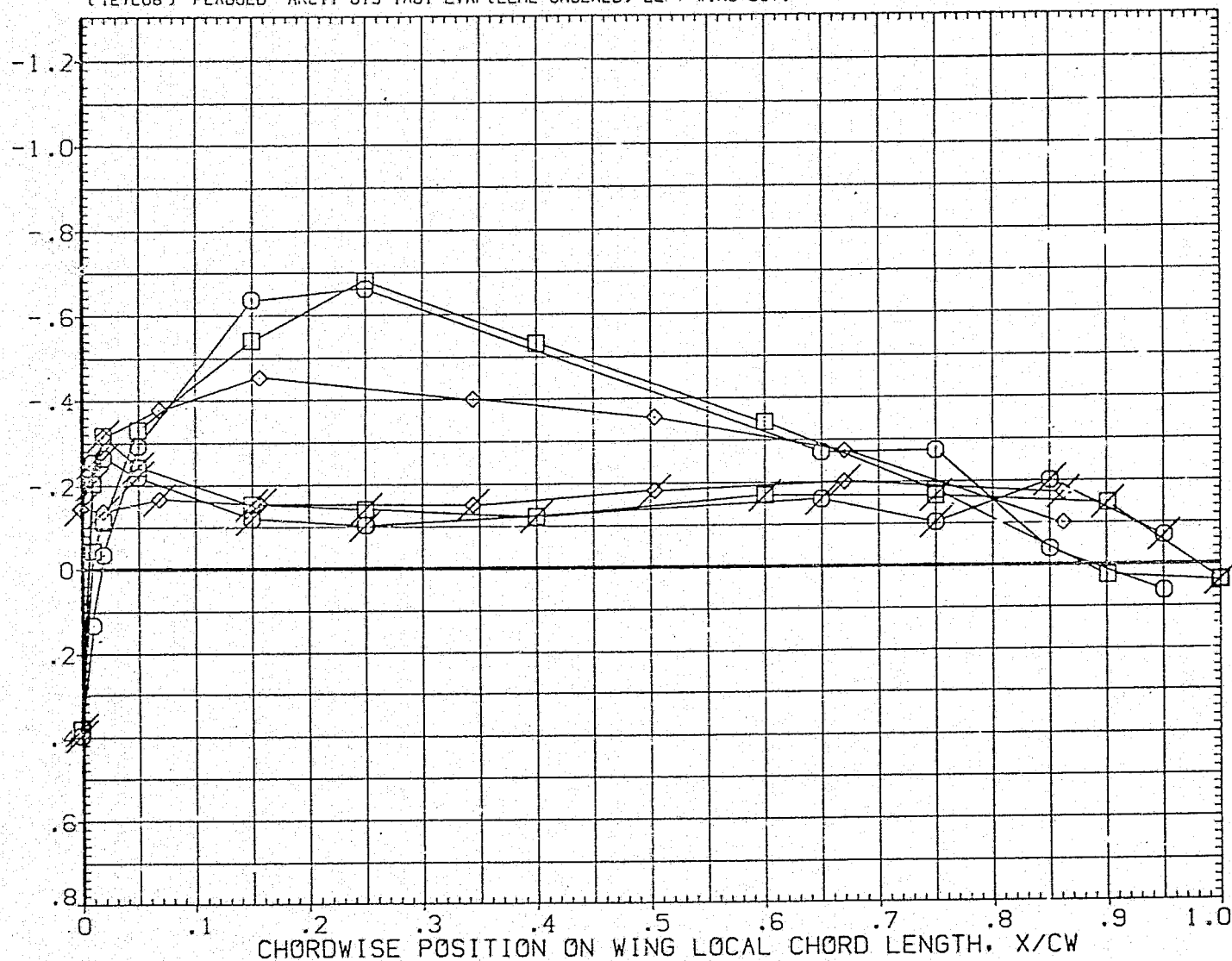


FIG. 72 WING CHORDWISE PRESS. DIST., ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 0.6

SYMBOL	Y/BW	BETA0	ALPHA0
○	.235	4.000	.000
□	.299		
◇	.364		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(1ETU06)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(1ETL06)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

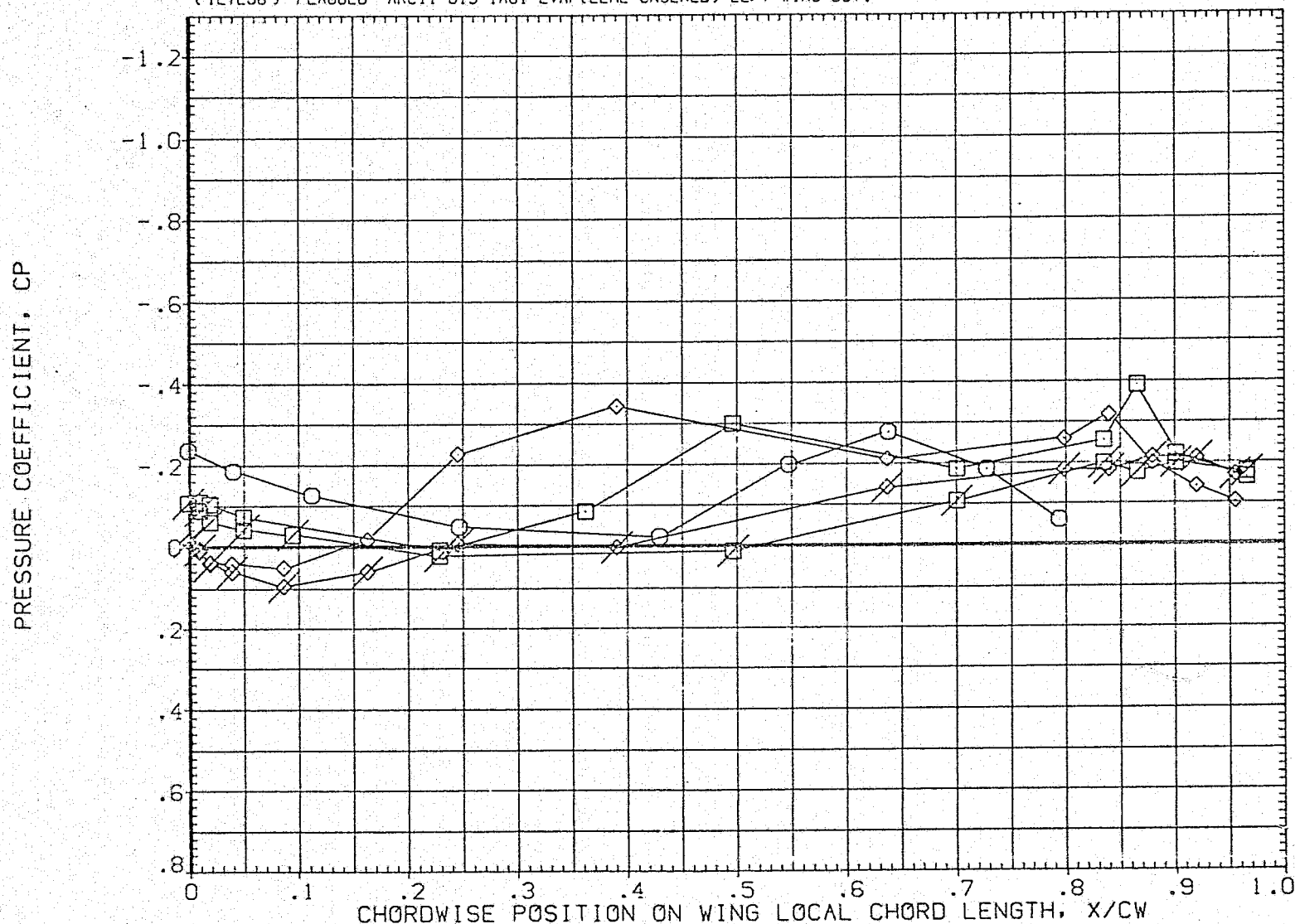


FIG. 72 WING CHORDWISE PRESS. DIST., ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 0.6

SYMBOL	Y/BW	BETA0	ALPHA0
○	.427	4.000	.000
□	.534		
◇	.673		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(1ETU06)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(1ETL06)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

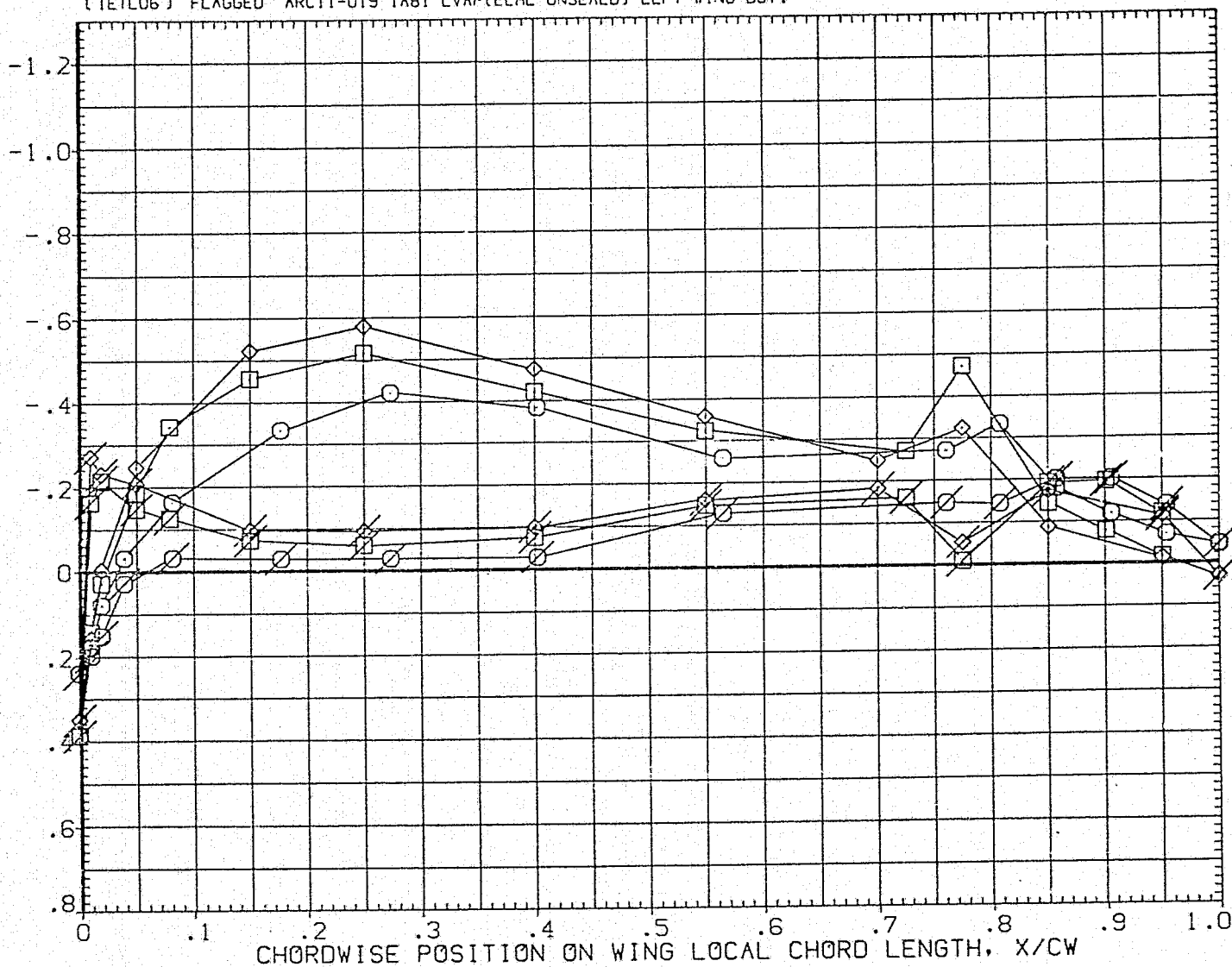


FIG. 72 WING CHORDWISE PRESS. DIST., ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 0.6

SYMBOL	Y/BW	BETA0	ALPHA0
○	.780	4.000	.000
□	.887		
◇	.972		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(1ETU06)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(1ETL06)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

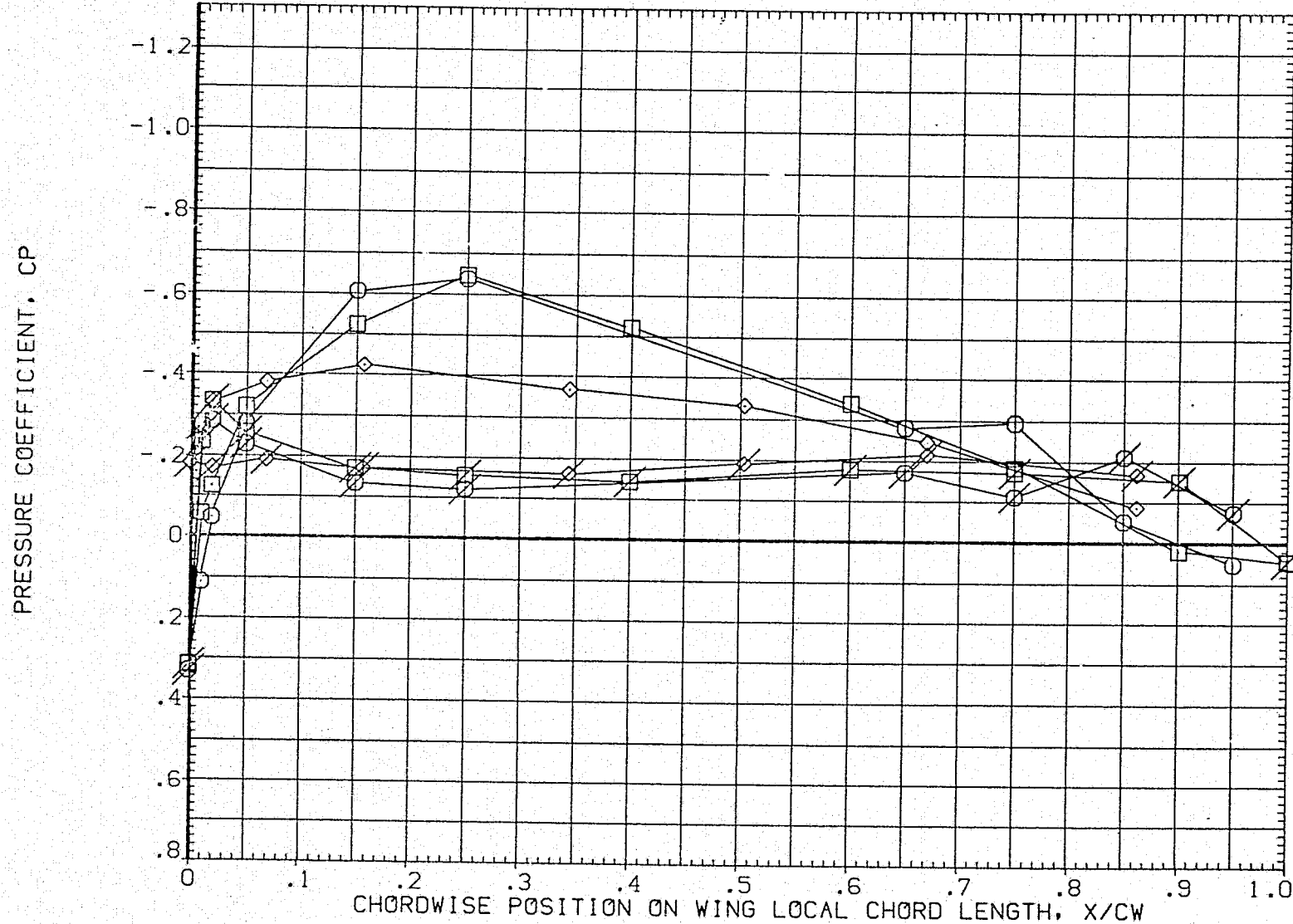


FIG. 72 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

SYMBOL	Y/BW	BETA0	ALPHA0
○	.235	-4.000	4.000
□	.299		
◇	.364		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU06)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETL06)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

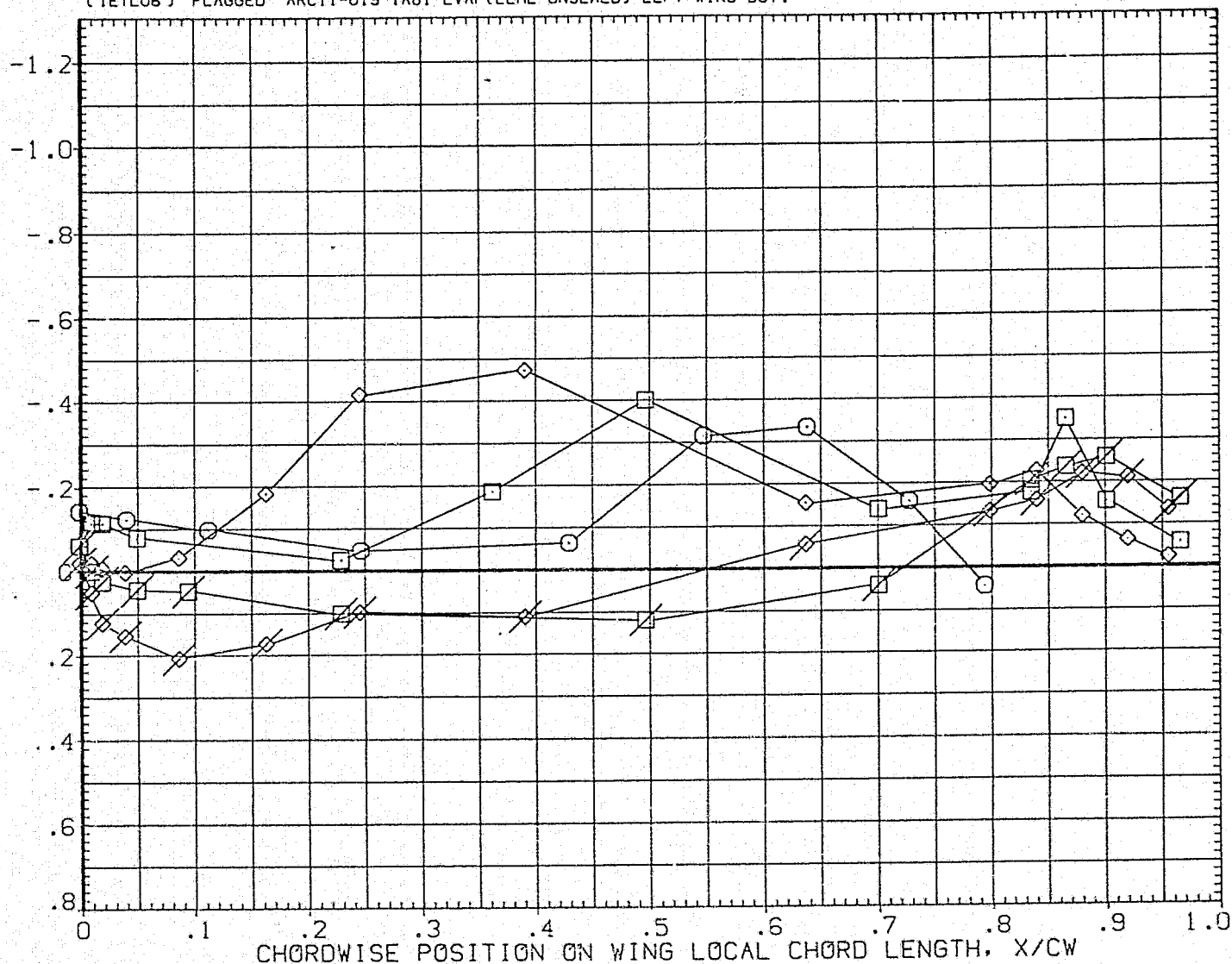


FIG. 72 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

SYMBOL	Y/BW	BETA0	ALPHA0
○	.427	-4.000	4.000
□	.534		
◇	.673		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU06)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETL06)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

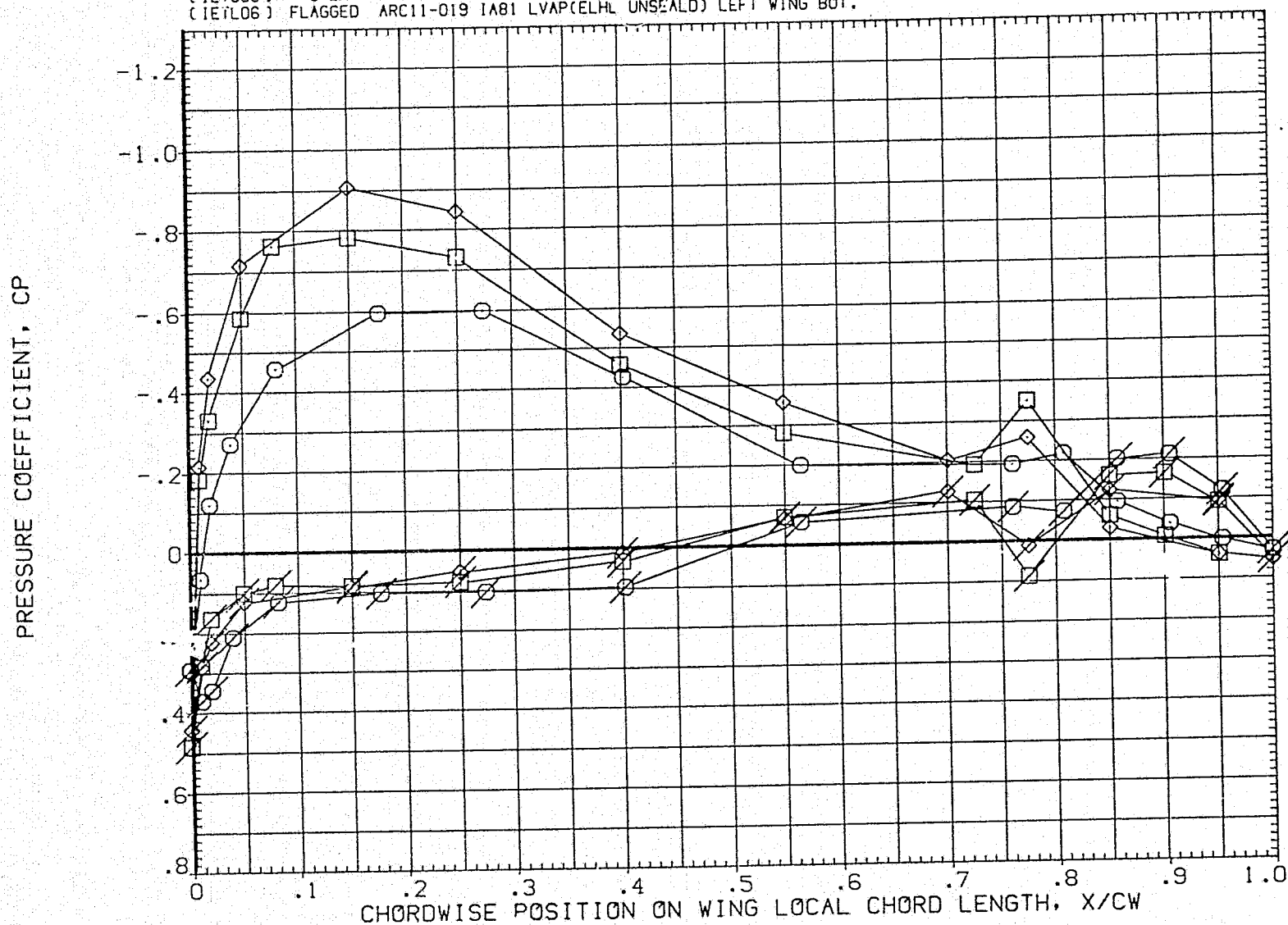


FIG. 72 WING CHORDWISE PRESS. DIST., ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 0.6

SYMBOL	Y/BW	BETA0	ALPHA0
○	.780	-4.000	4.000
□	.887		
◇	.972		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU06)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETL06)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

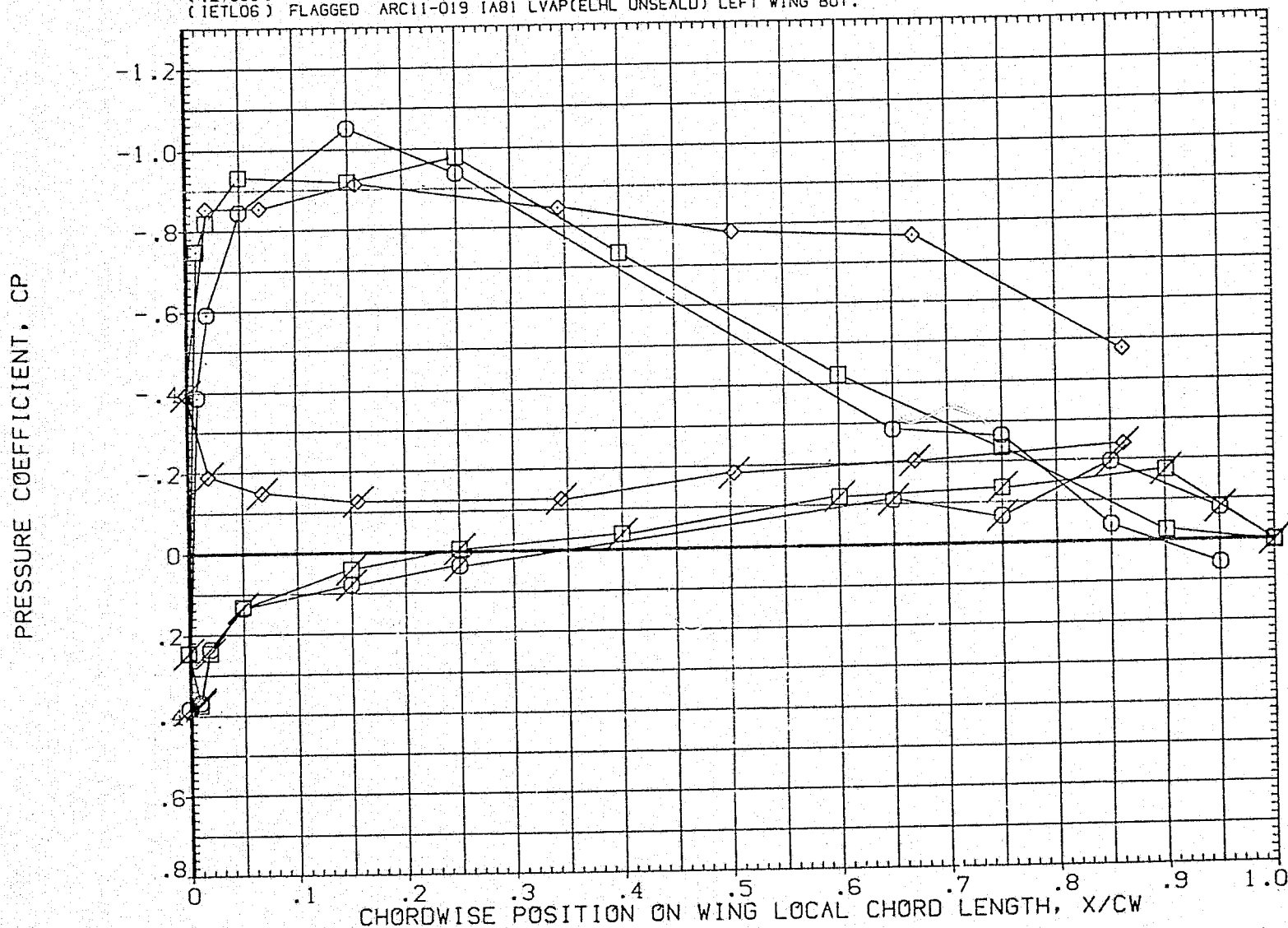


FIG. 72 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

SYMBOL	Y/BW	BETA0	ALPHA0
○	.235	.000	4.000
□	.299		
◇	.364		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU06)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETL06)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

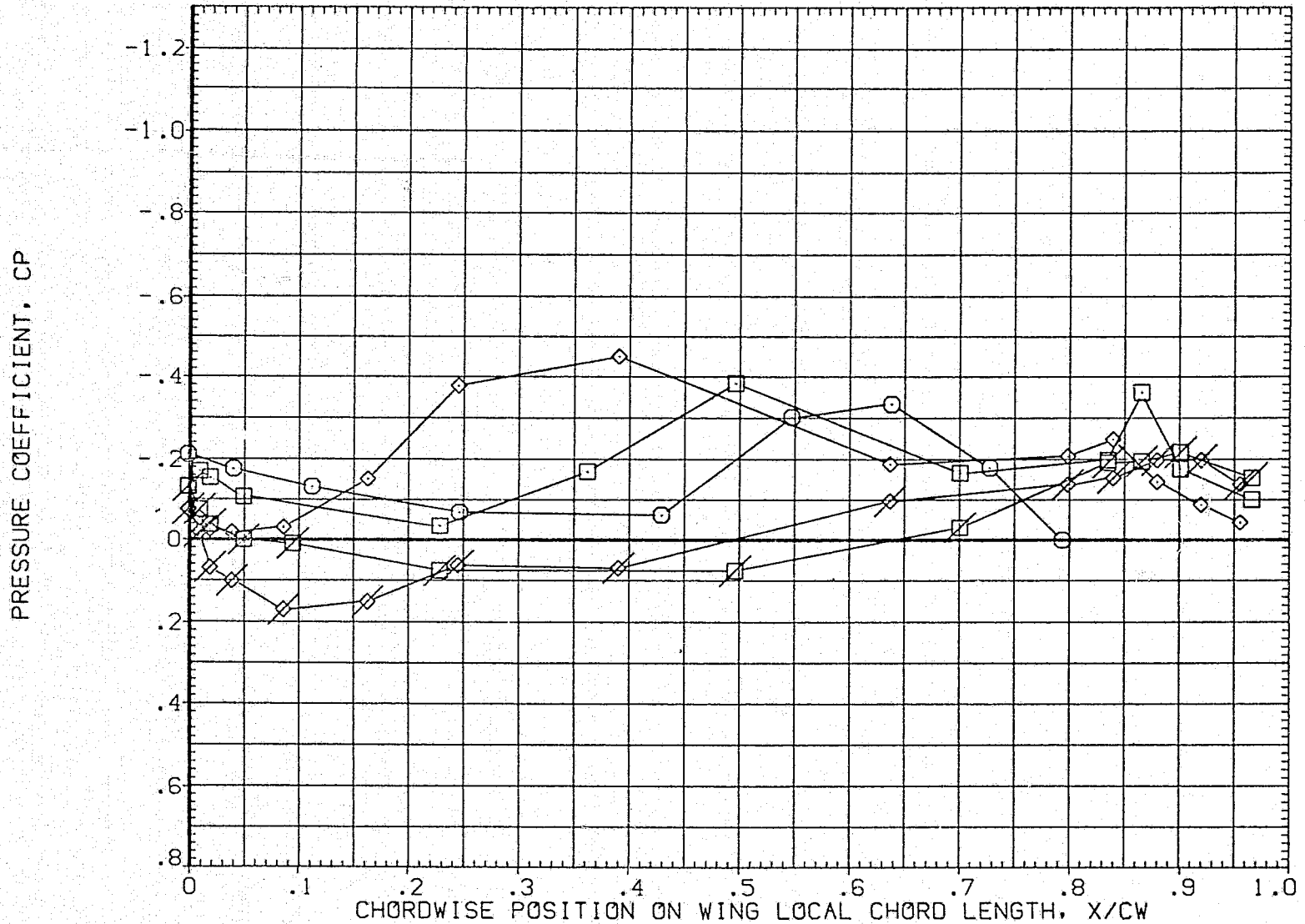


FIG. 72 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

SYMBOL	Y/BW	BETA0	ALPHA0
○	.427	.000	4.000
□	.534		
◇	.673		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU06)	OPEN	ARC11-019 IAB1 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETL06)	FLAGGED	ARC11-019 IAB1 LVAP(ELHL UNSEALD) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

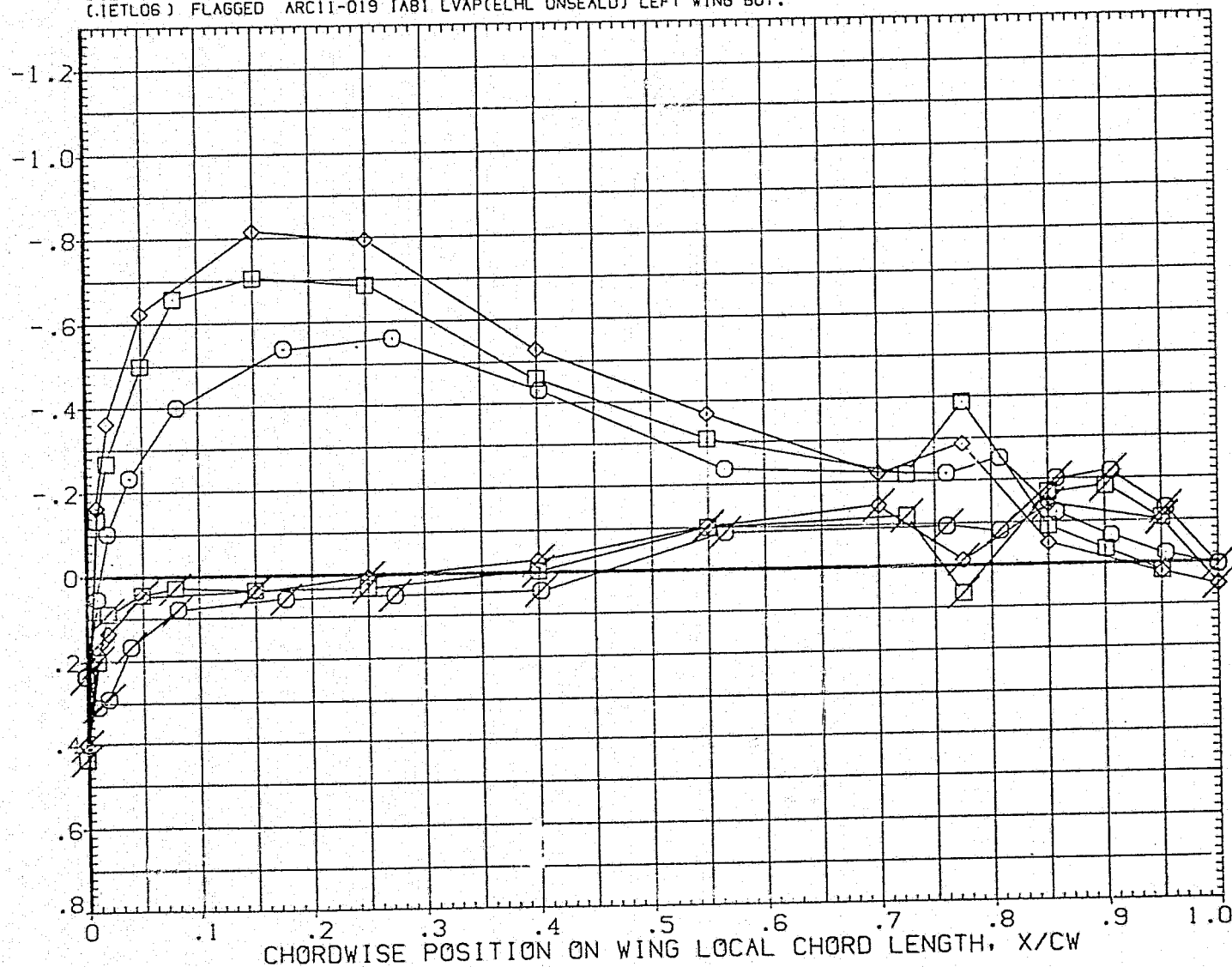


FIG. 72 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

SYMBOL	Y/BW	BETA0	ALPHA0
○	.780	.000	4.000
□	.887		
◇	.972		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU06)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETL06)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

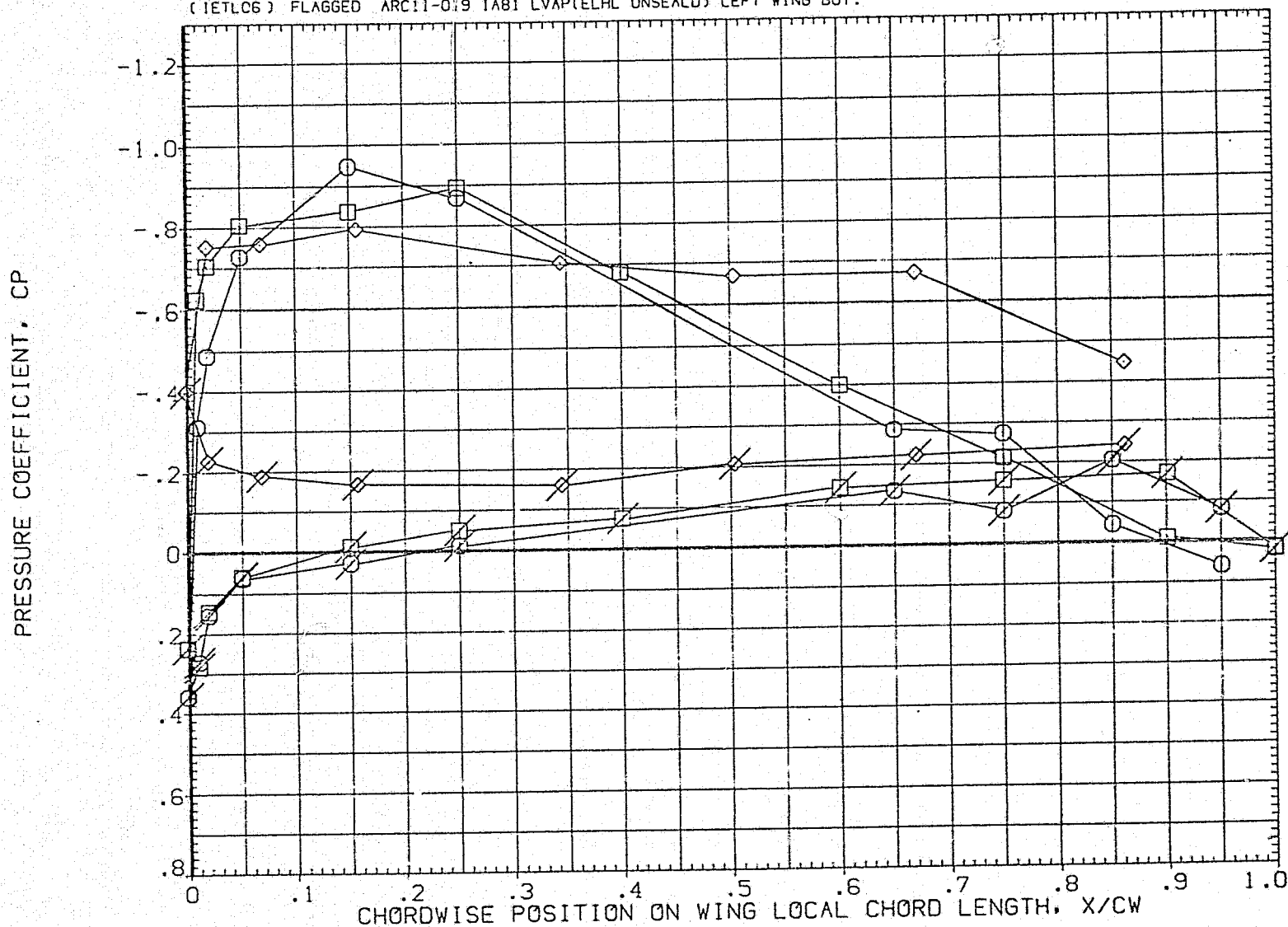


FIG. 72 WING CHORDWISE PRESS. DIST., ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 0.6

SYMBOL	Y/BW	BETA0	ALPHA0
○	.235	4.000	4.000
□	.299		
◇	.364		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU06)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETL06)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

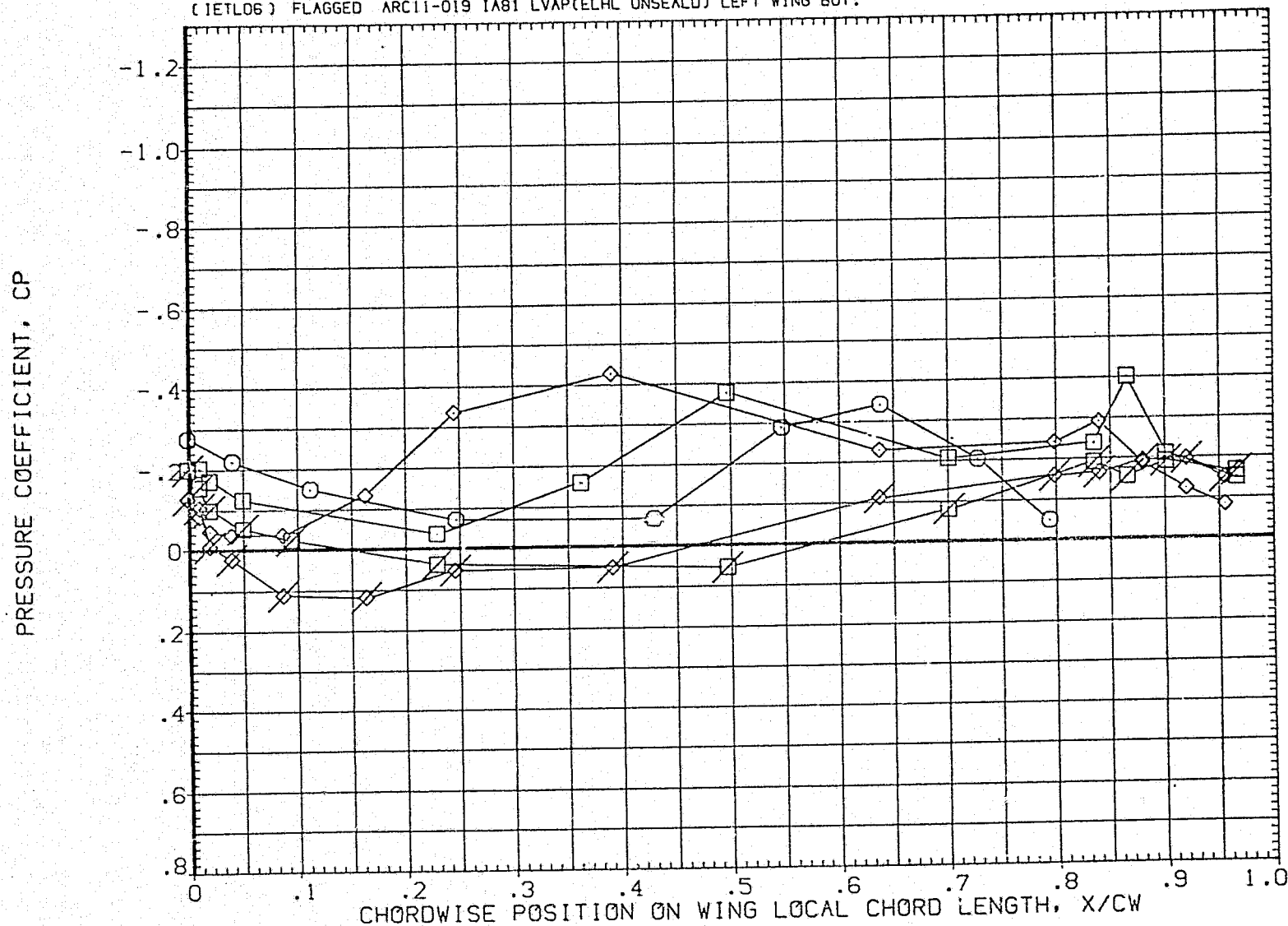


FIG. 72 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

SYMBOL	Y/BW	BETA0	ALPHA0
○	.427	4.000	4.000
□	.534		
◇	.673		

PARAMETRIC VALUES			
MACH	.600	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU06)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETL06)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

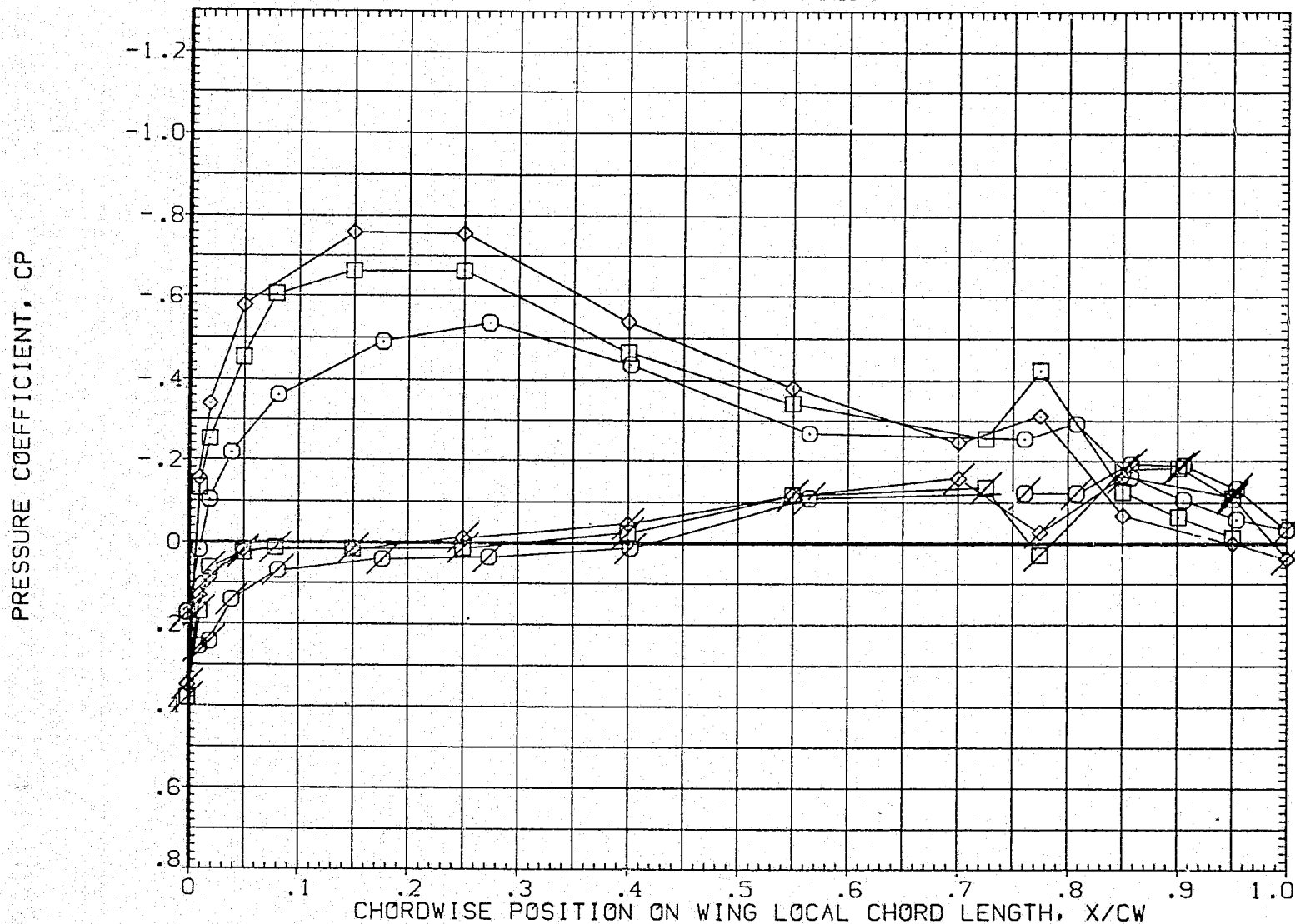


FIG. 72 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

SYMBOL	Y/BW	BETA0	ALPHA0
○	.780	4.000	4.000
□	.887		
◇	.972		

MACH	.600	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(1ETU06)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(1ETL06)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

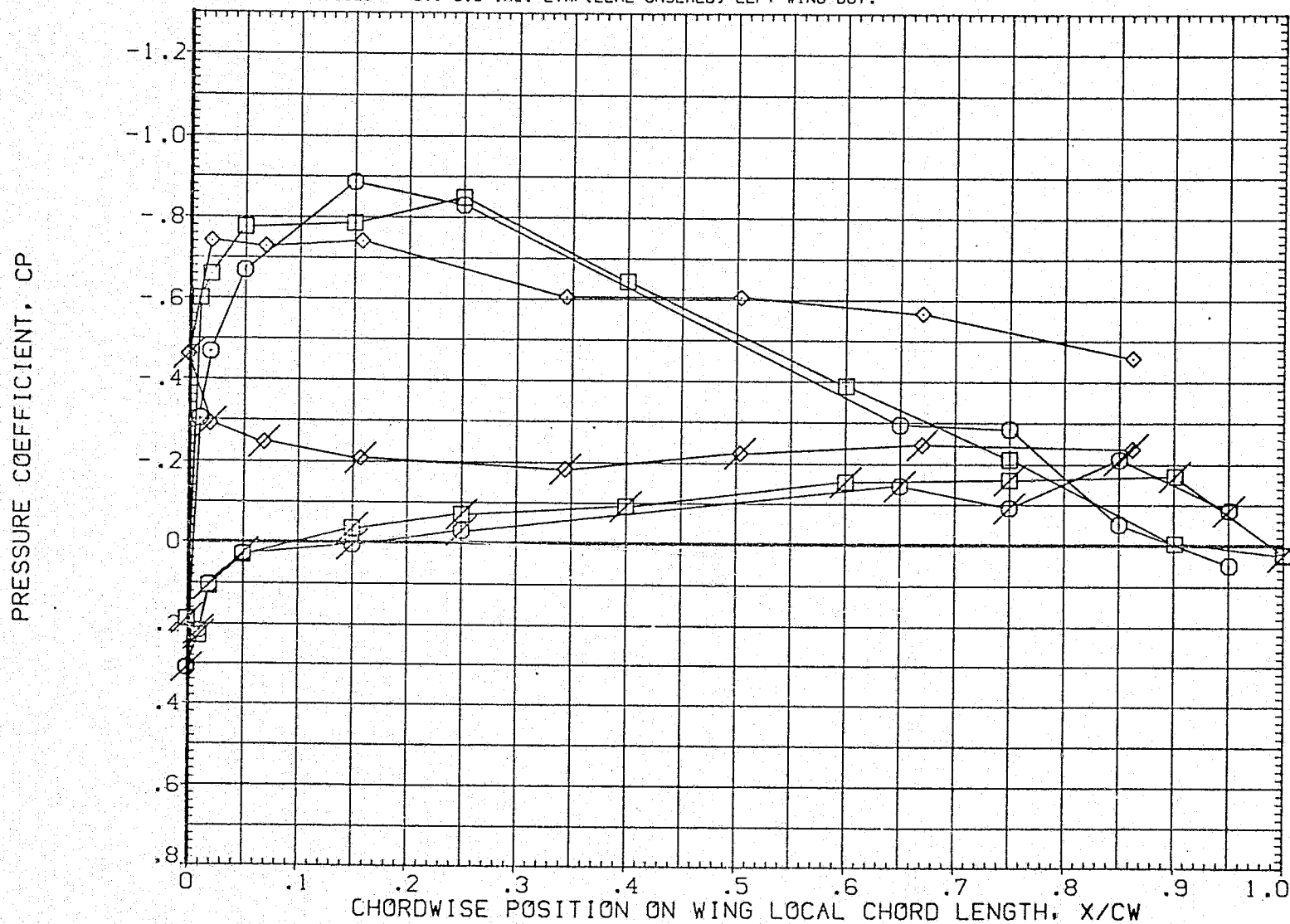


FIG. 72 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.6

SYMBOL	Y/BW	BETA0	ALPHA0
○	.235	-4.000	-4.000
□	.299		
◇	.364		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU07)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETL07)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

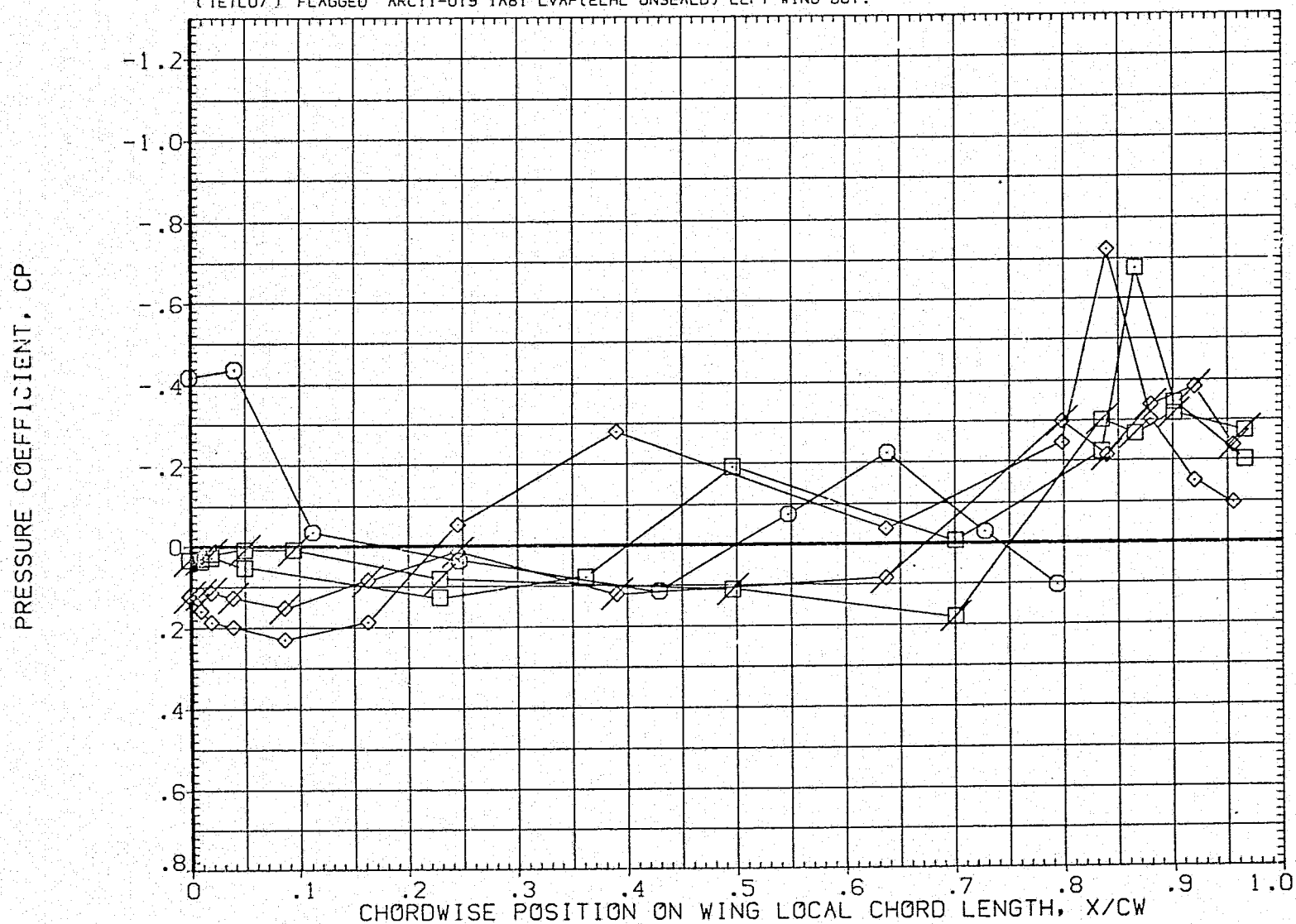


FIG. 73 WING CHORDWISE PRESS. DIST., ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 0.9

SYMBOL	Y/BW	BETA0	ALPHA0
○	.427	-4.000	-4.000
□	.534		
◇	.673		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU07)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETL07)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

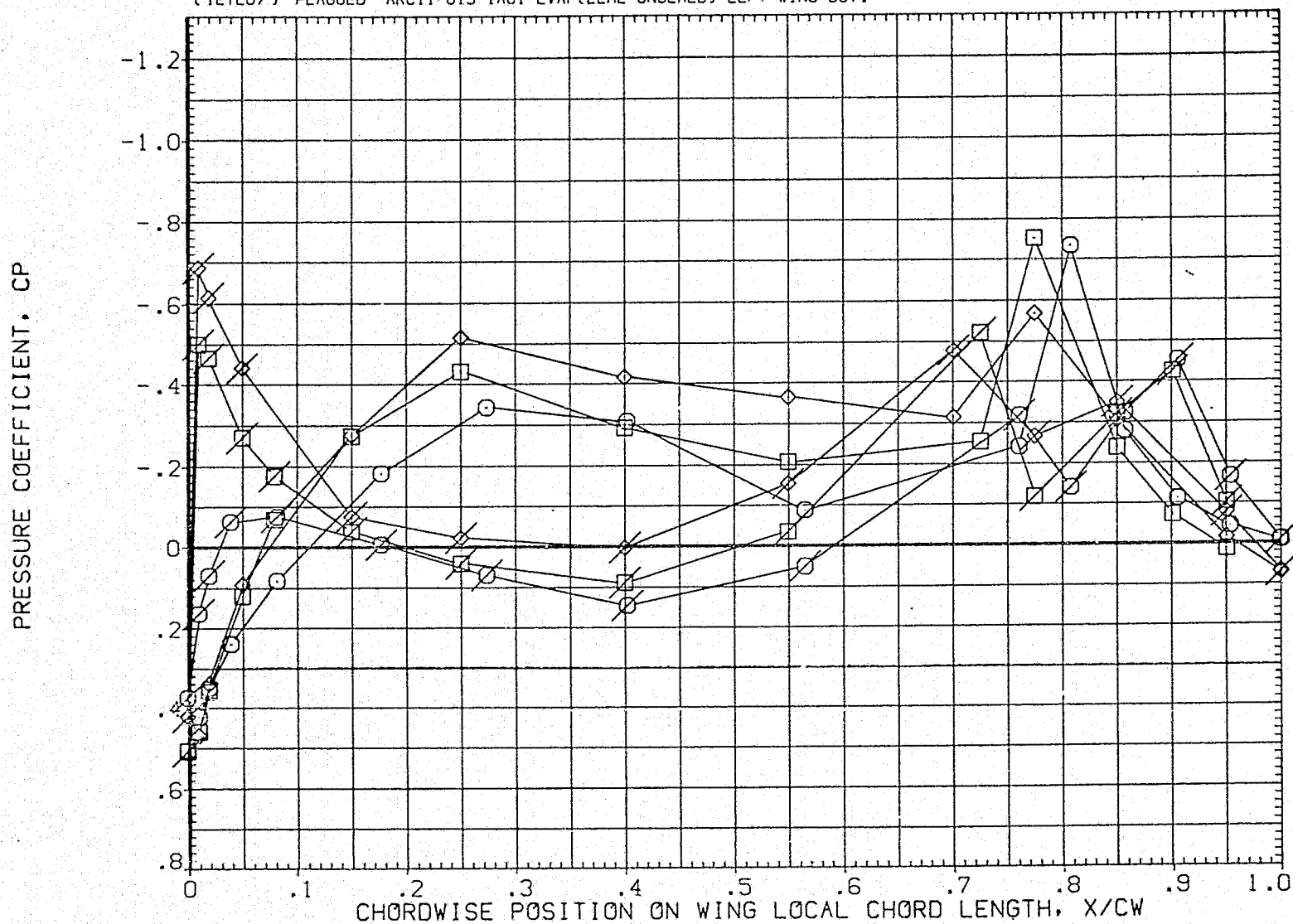


FIG. 73 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

SYMBOL	Y/BW	BETA0	ALPHA0
○	.780	-4.000	-4.000
□	.887		
◇	.972		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU07)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETL07)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

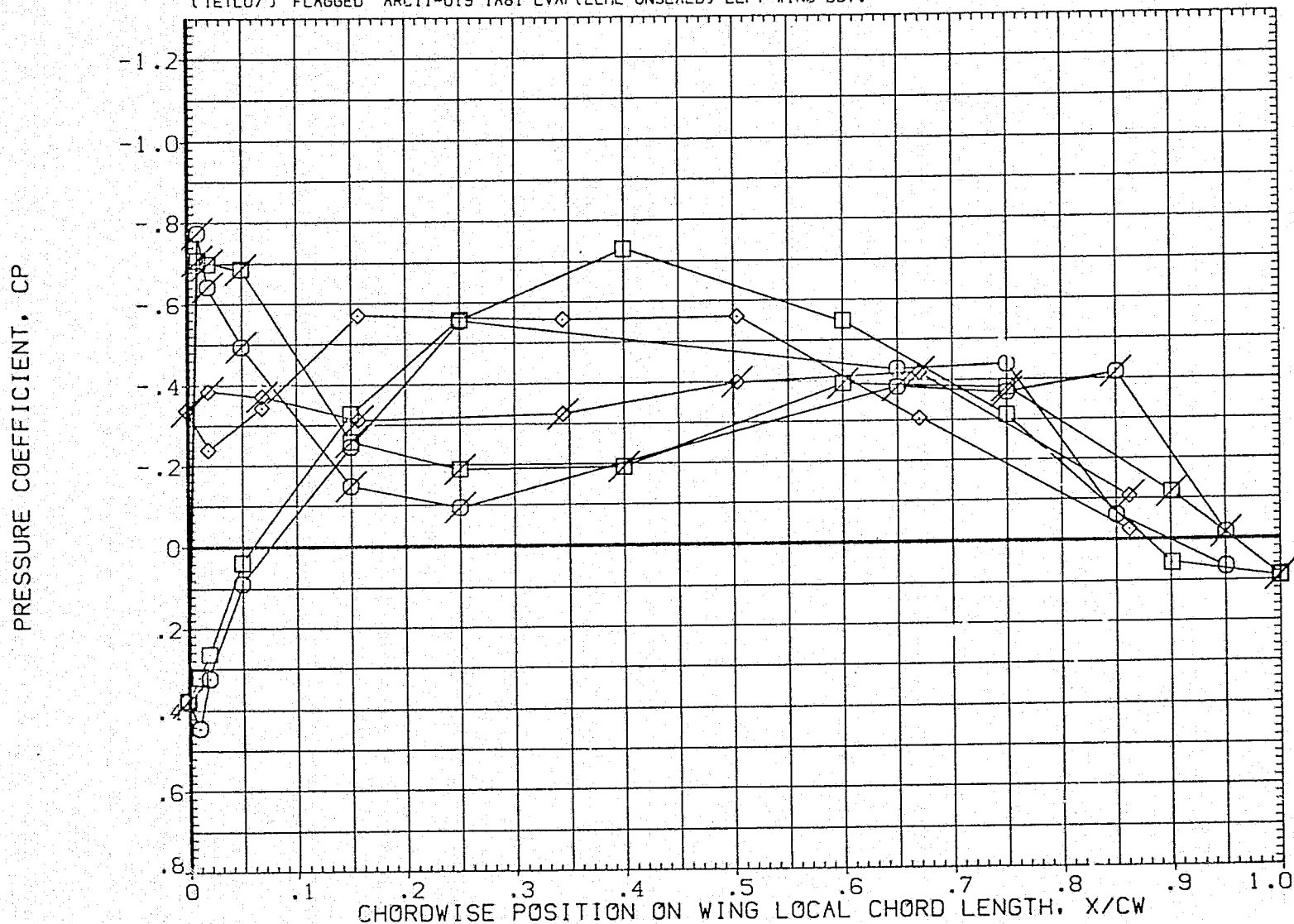


FIG. 73 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

SYMBOL	Y/BW	BETA0	ALPHA0
○	.235	.000	-4.000
□	.299		
◇	.364		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(1ETU07)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP.
(1ETL07)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

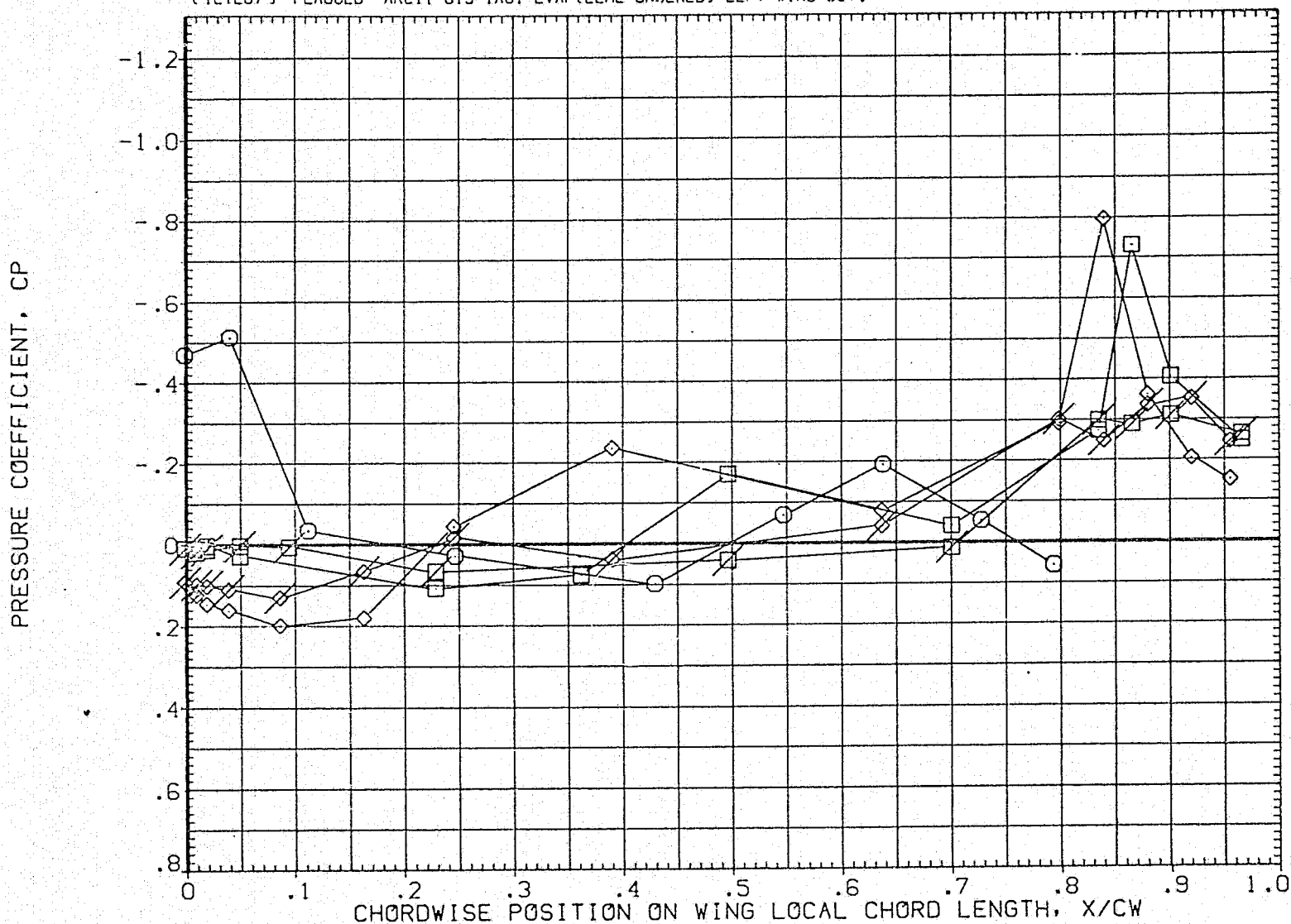


FIG. 73 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

SYMBOL	Y/BW	BETA0	ALPHA0
○	.427	.000	-4.000
□	.534		
◇	.673		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-18	8.000	ELV-03	4.000
RUDDER	.000	SPDBRK	.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (IETU07) OPEN ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
 (IETL07) FLAGGED ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

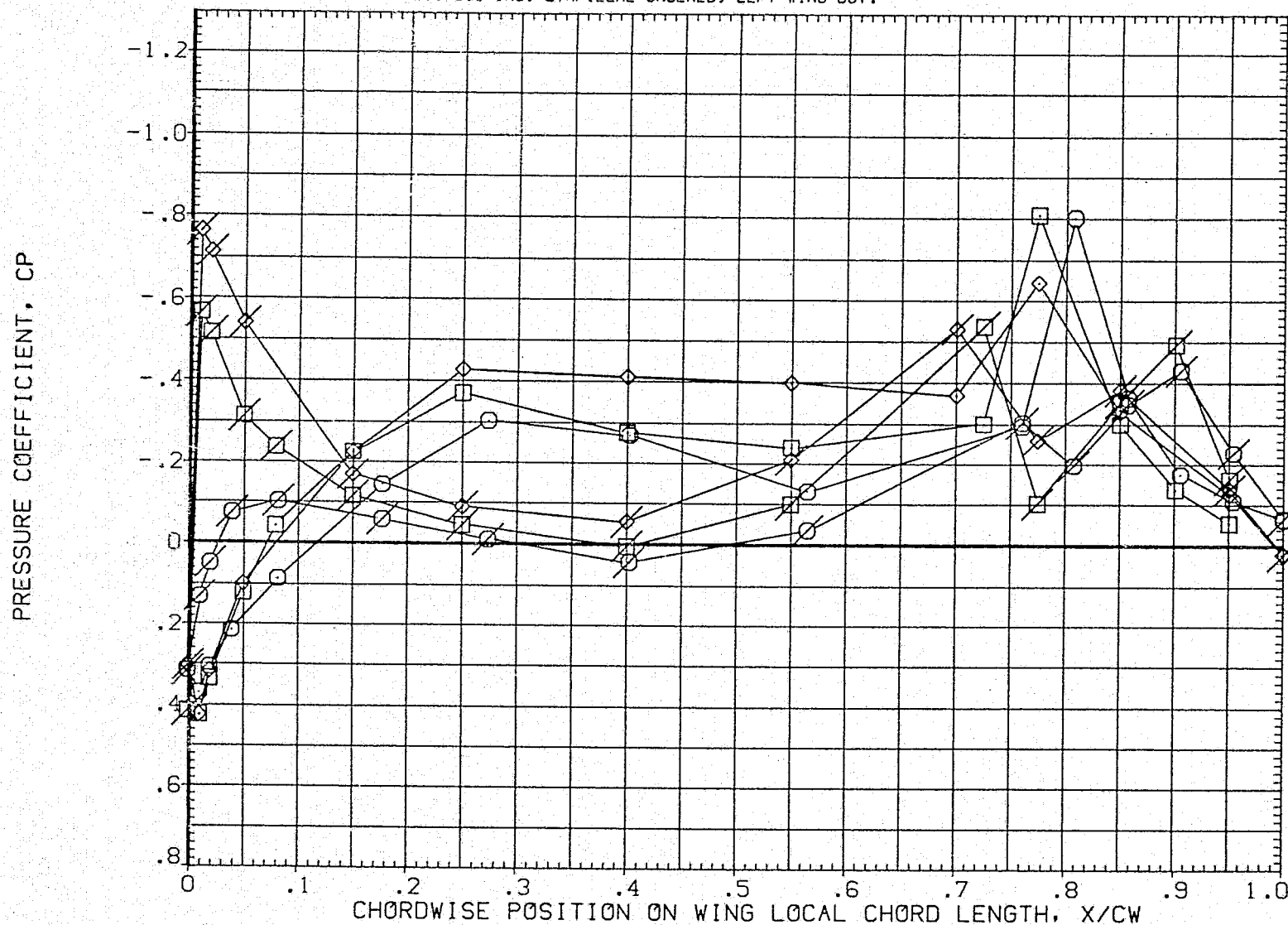


FIG. 73 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

SYMBOL	Y/BW	BETA0	ALPHA0
○	.780	.000	-4.000
□	.887		
◇	.972		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU07)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETLO7)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

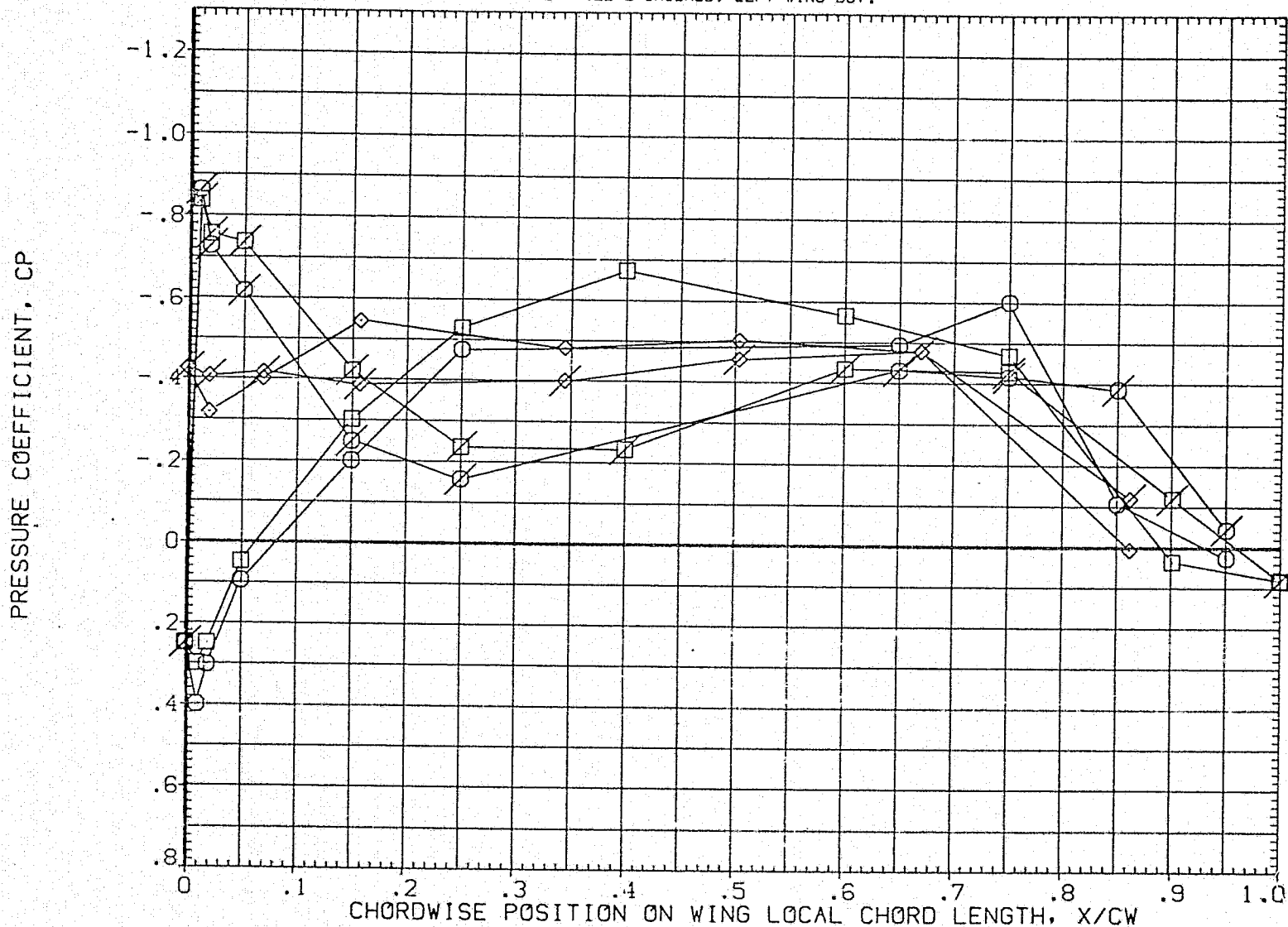


FIG. 73 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

SYMBOL	Y/BW	BETA0	ALPHA0
○	.235	4.000	-4.000
□	.299		
◇	.364		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU07)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETL07)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

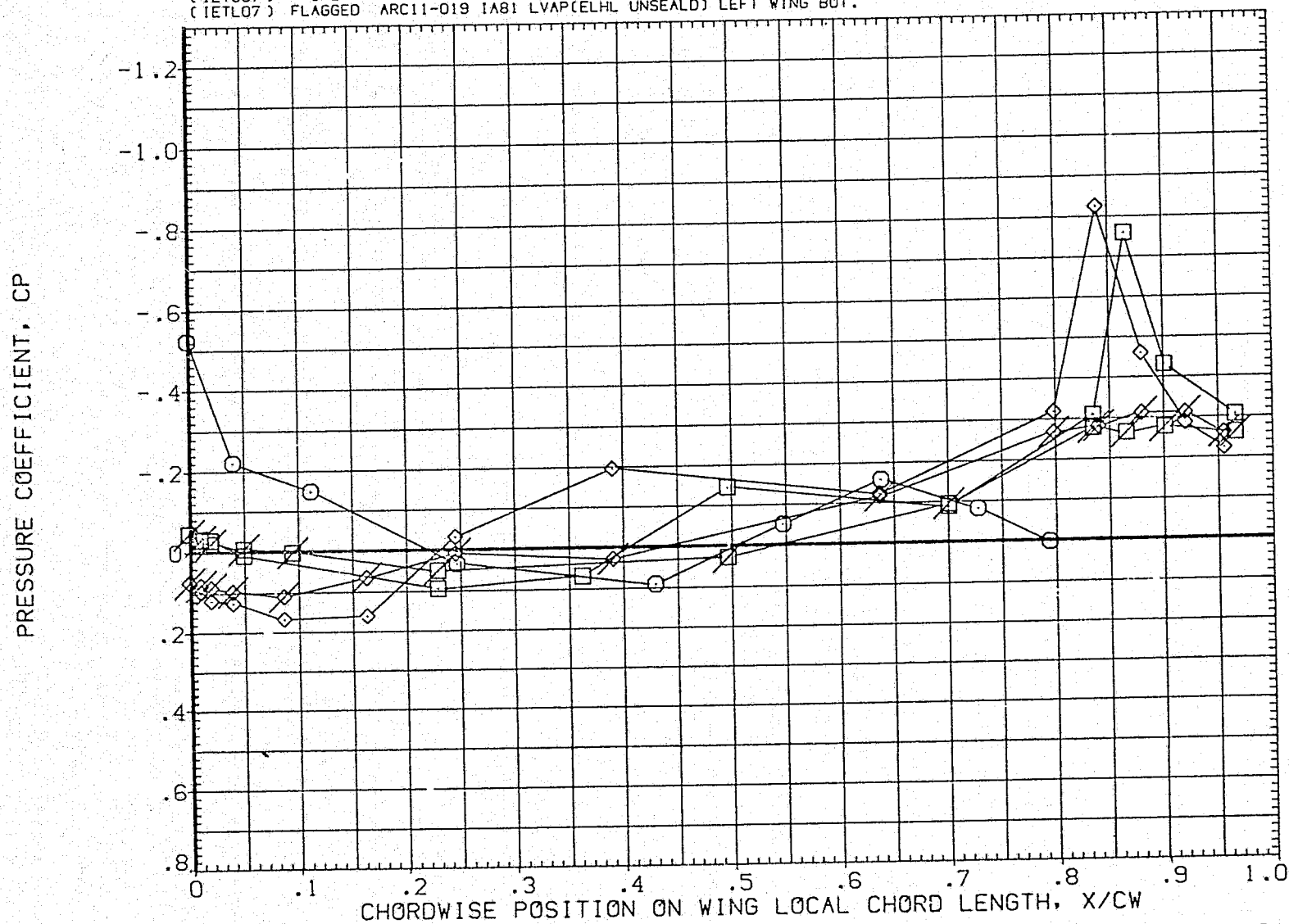


FIG. 73 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

SYMBOL	Y/BW	BETA0	ALPHA0
○	.427	4.000	-4.000
□	.534		
◇	.673		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-IB	9.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU07)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETL07)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

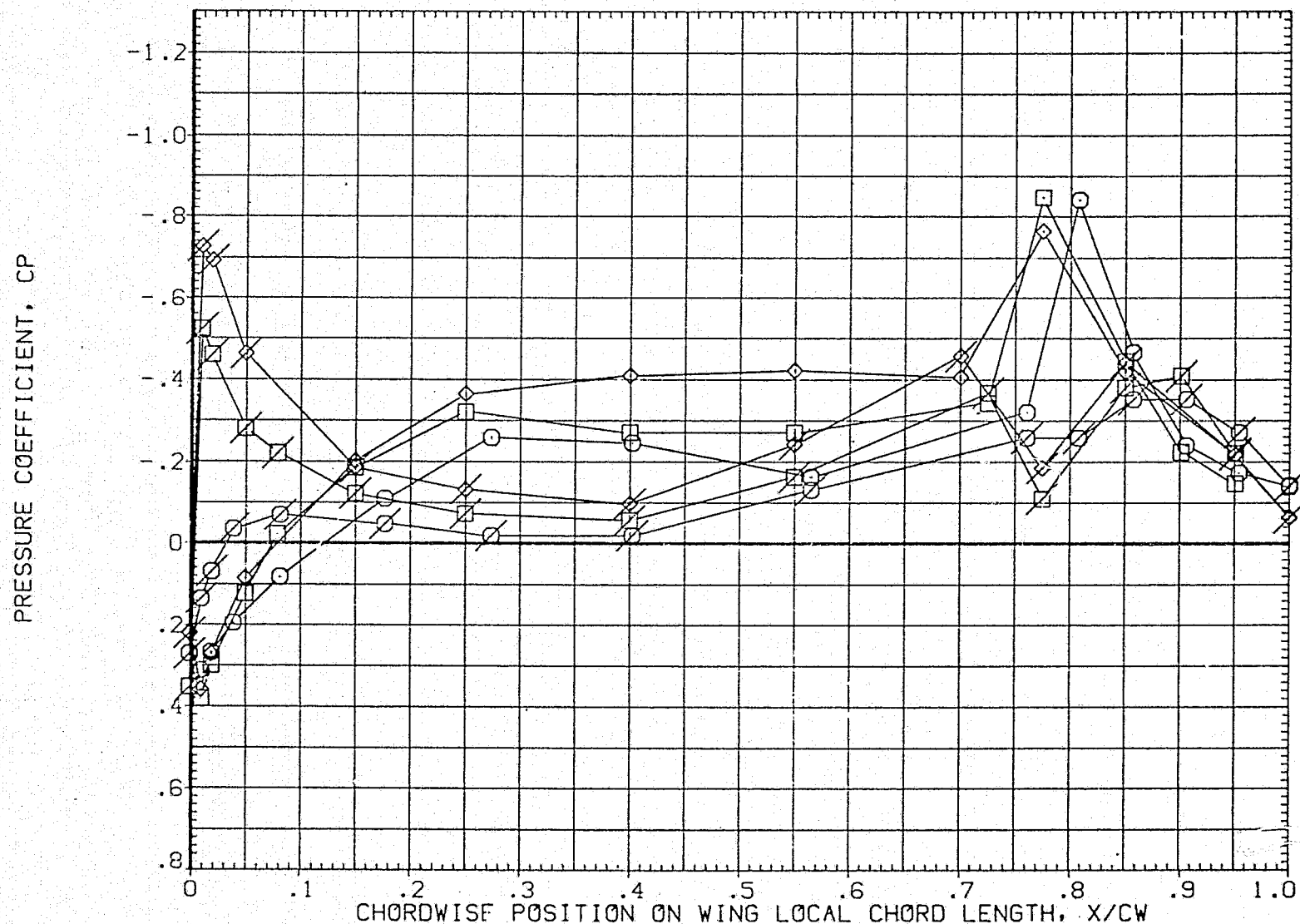


FIG. 73 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

SYMBOL	Y/BW	BETA0	ALPHA0
○	.780	4.000	-4.000
□	.887		
◇	.972		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU07)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETL07)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

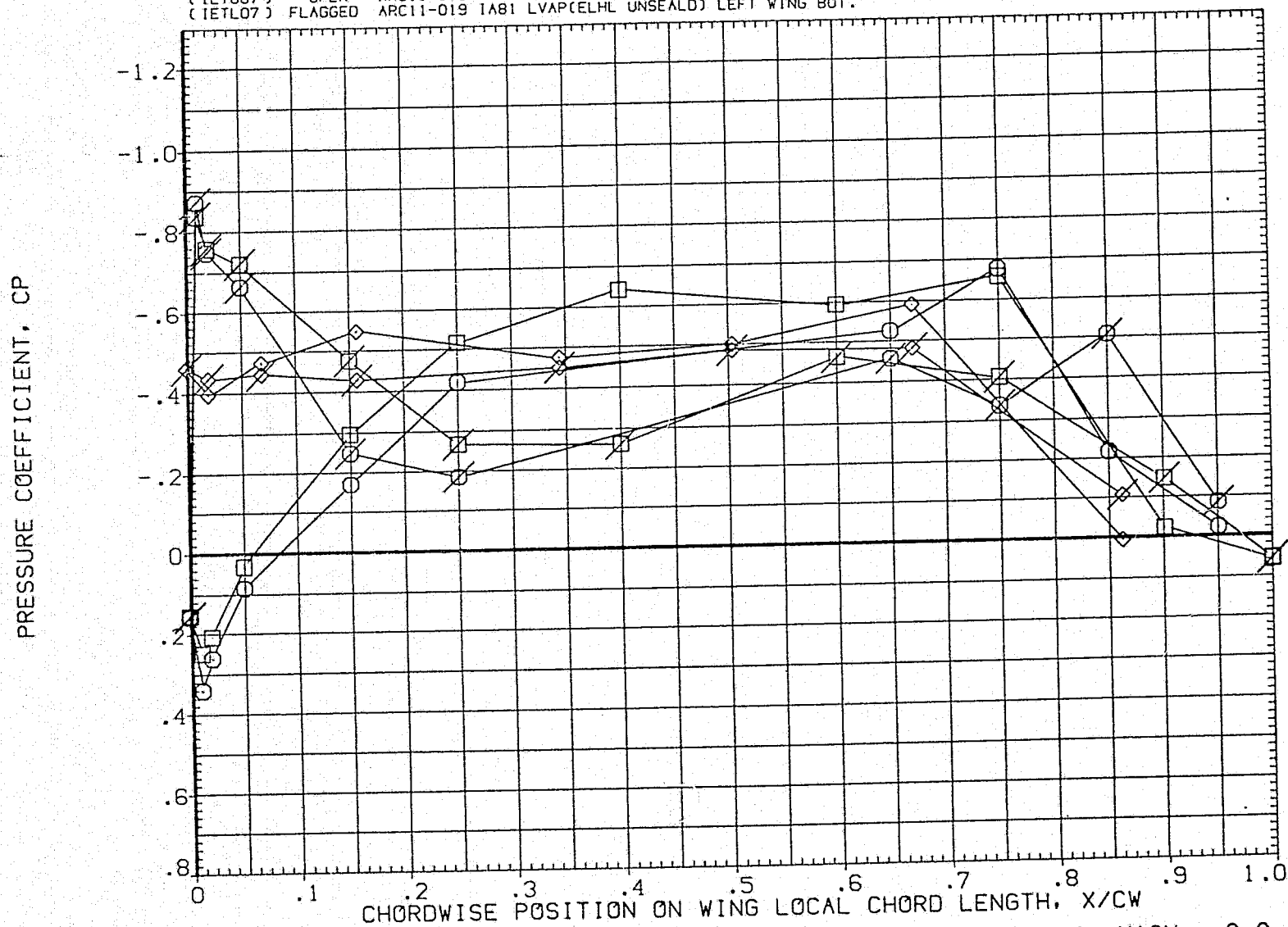


FIG. 73 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

SYMBOL	Y/BW	BETA	ALPHA
○	.235	-4.000	.000
□	.299		
◇	.364		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU07)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETL07)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

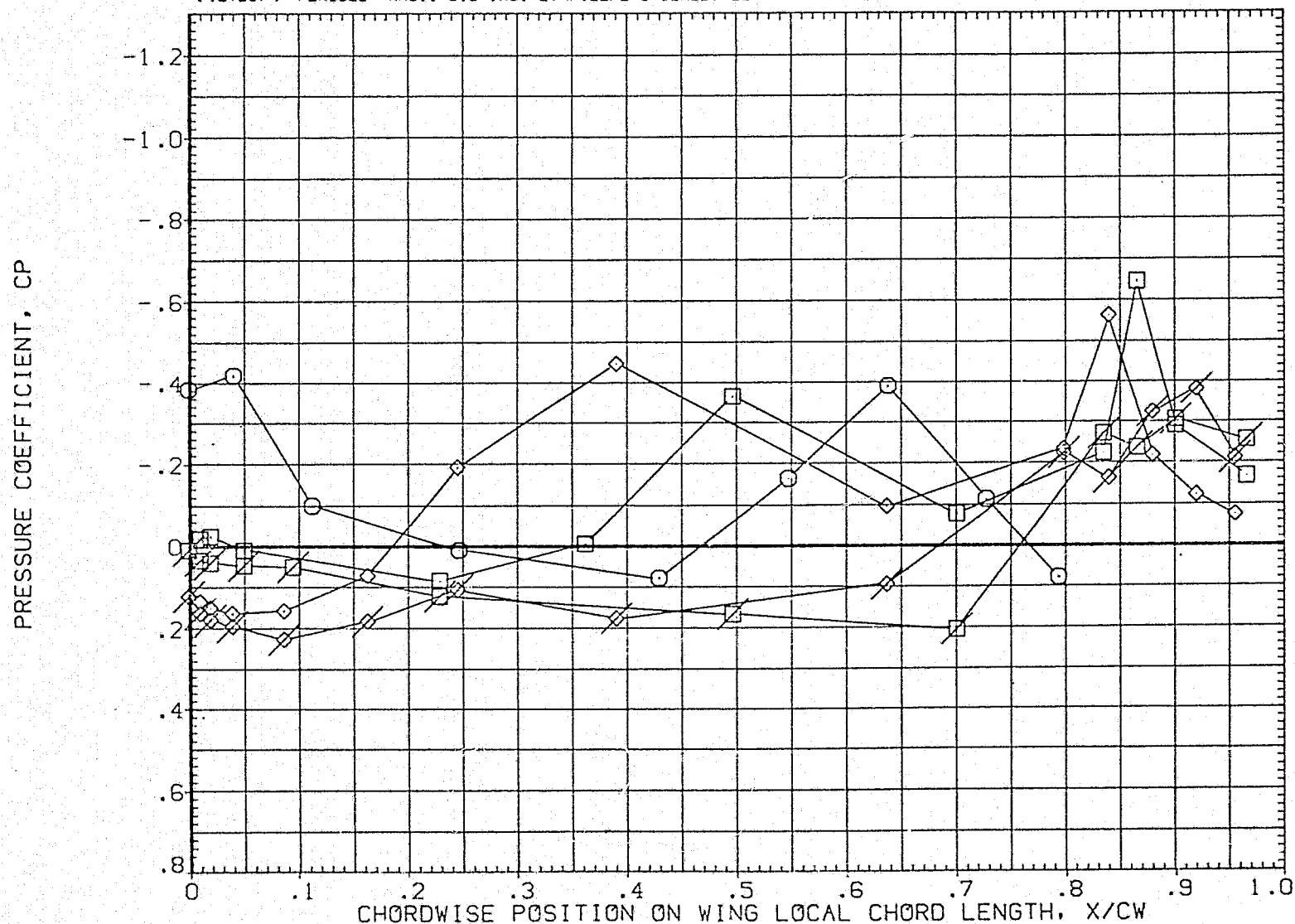


FIG. 73 WING CHORDWISE PRESS. DIST., ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 0.9

SYMBOL	Y/BW	BETA0	ALPHA0
○	.427	-4.000	.000
□	.534		
◇	.673		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(1ETU07)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(1ETL07)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

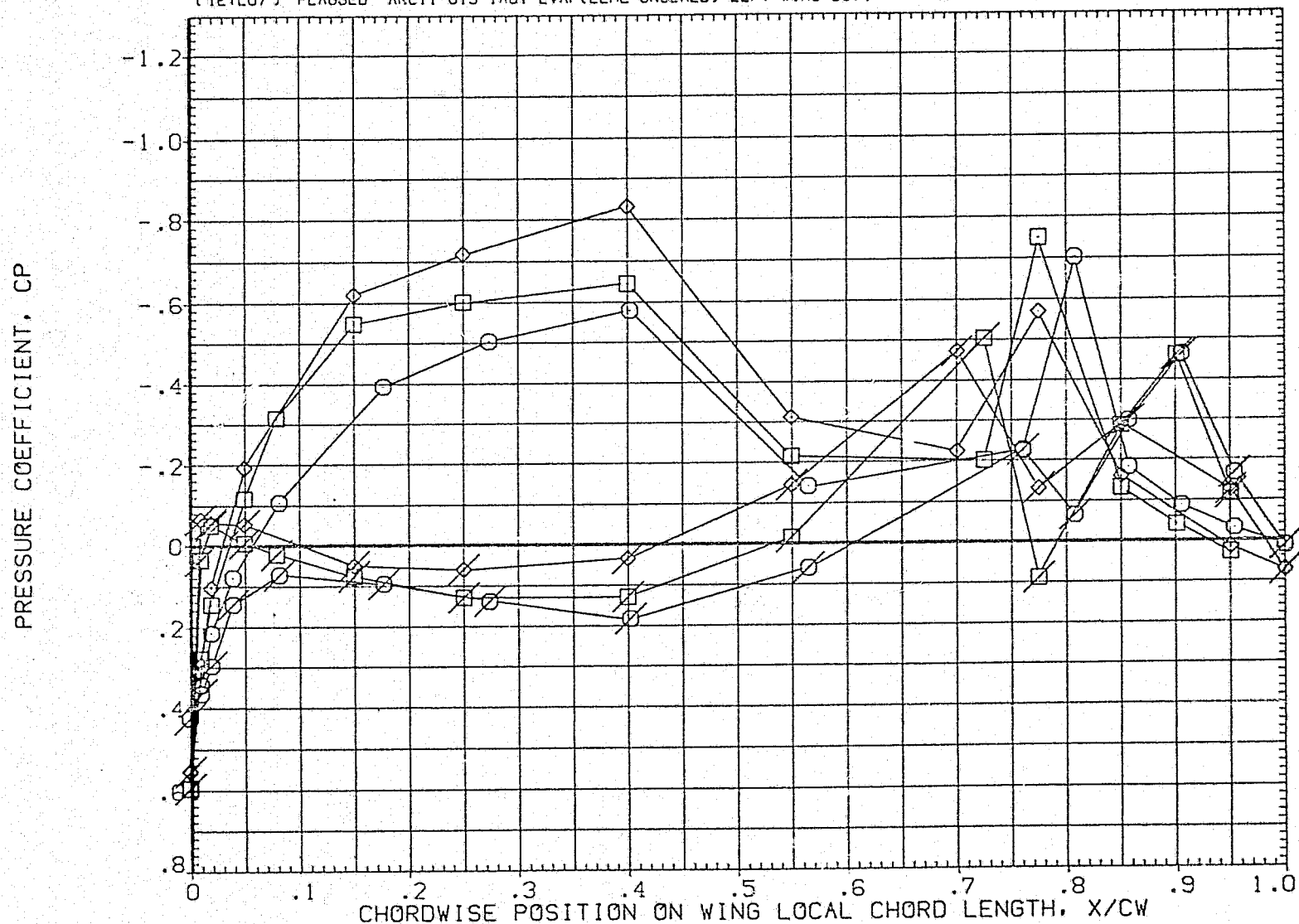


FIG. 73 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

SYMBOL	Y/BW	BETA0	ALPHA0
○	.780	-4.000	.000
□	.887		
◇	.972		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU07)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETL07)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

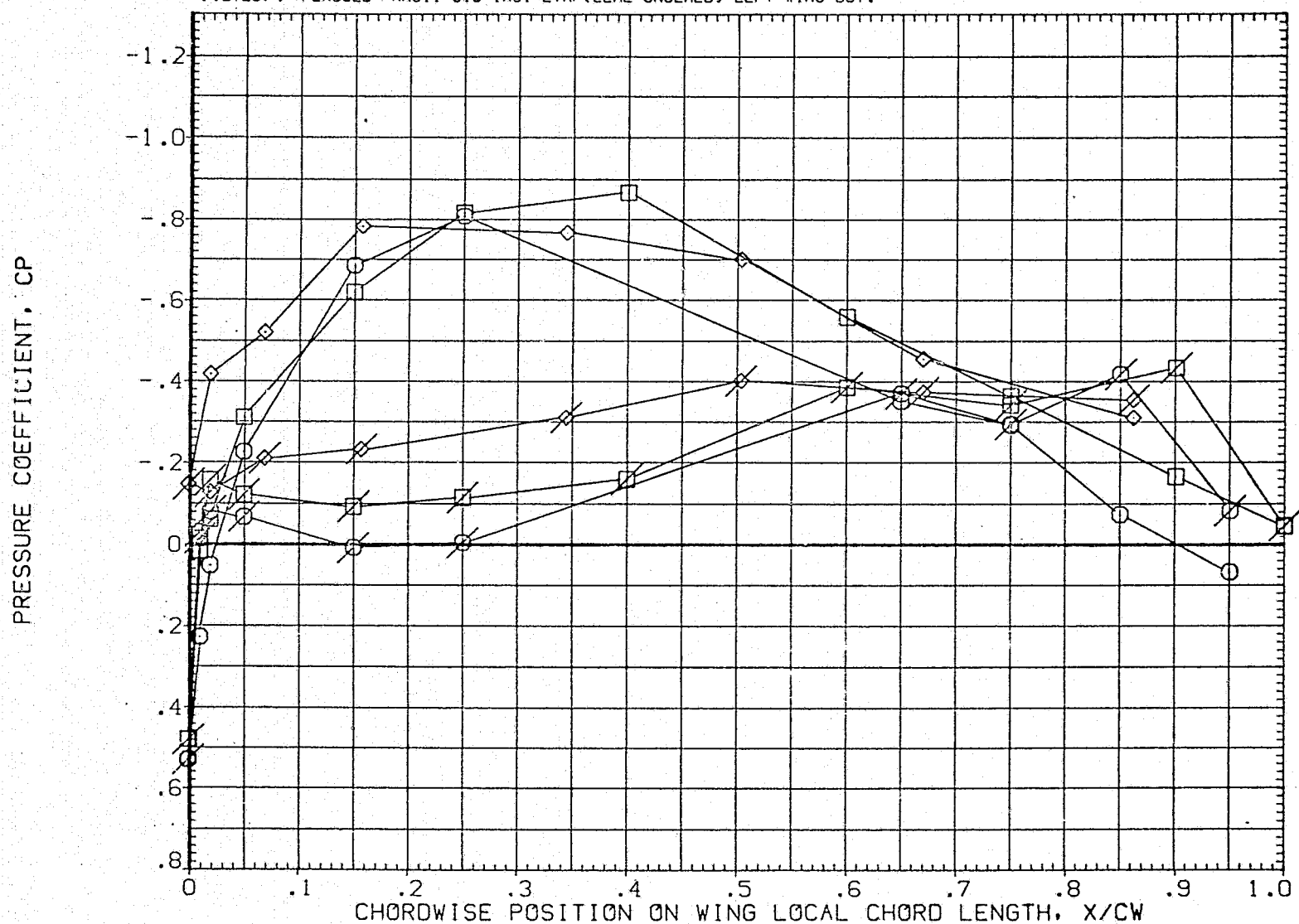


FIG. 73 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

SYMBOL	Y/BW	BETA0	ALPHA0
○	.235	.000	.000
□	.299		
◇	.364		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(1ETU07)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(1ETL07)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

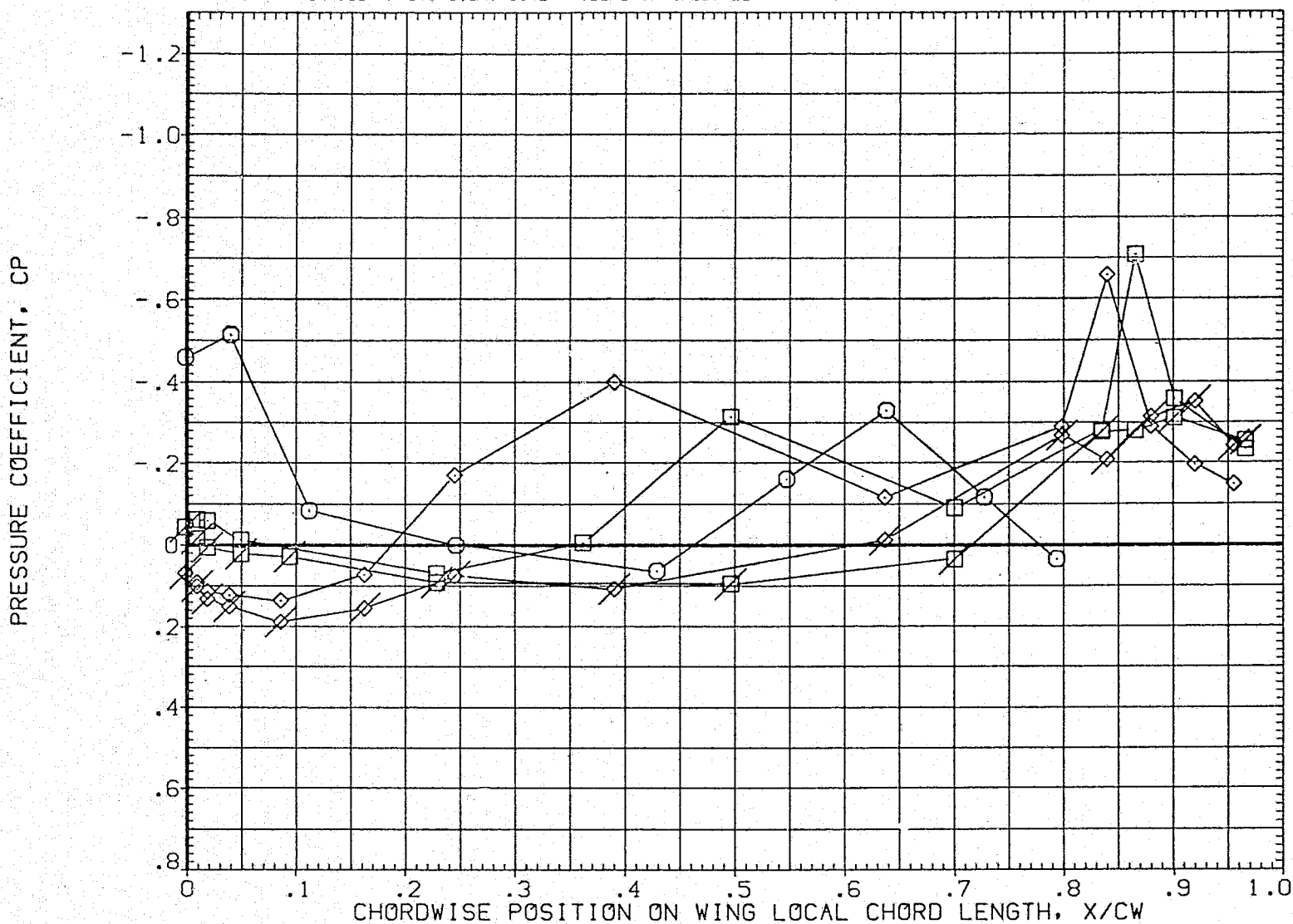


FIG. 73 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

SYMBOL	Y/BW	BETA0	ALPHA0
○	.427	.000	.000
□	.534		
◇	.673		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU07)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETL07)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

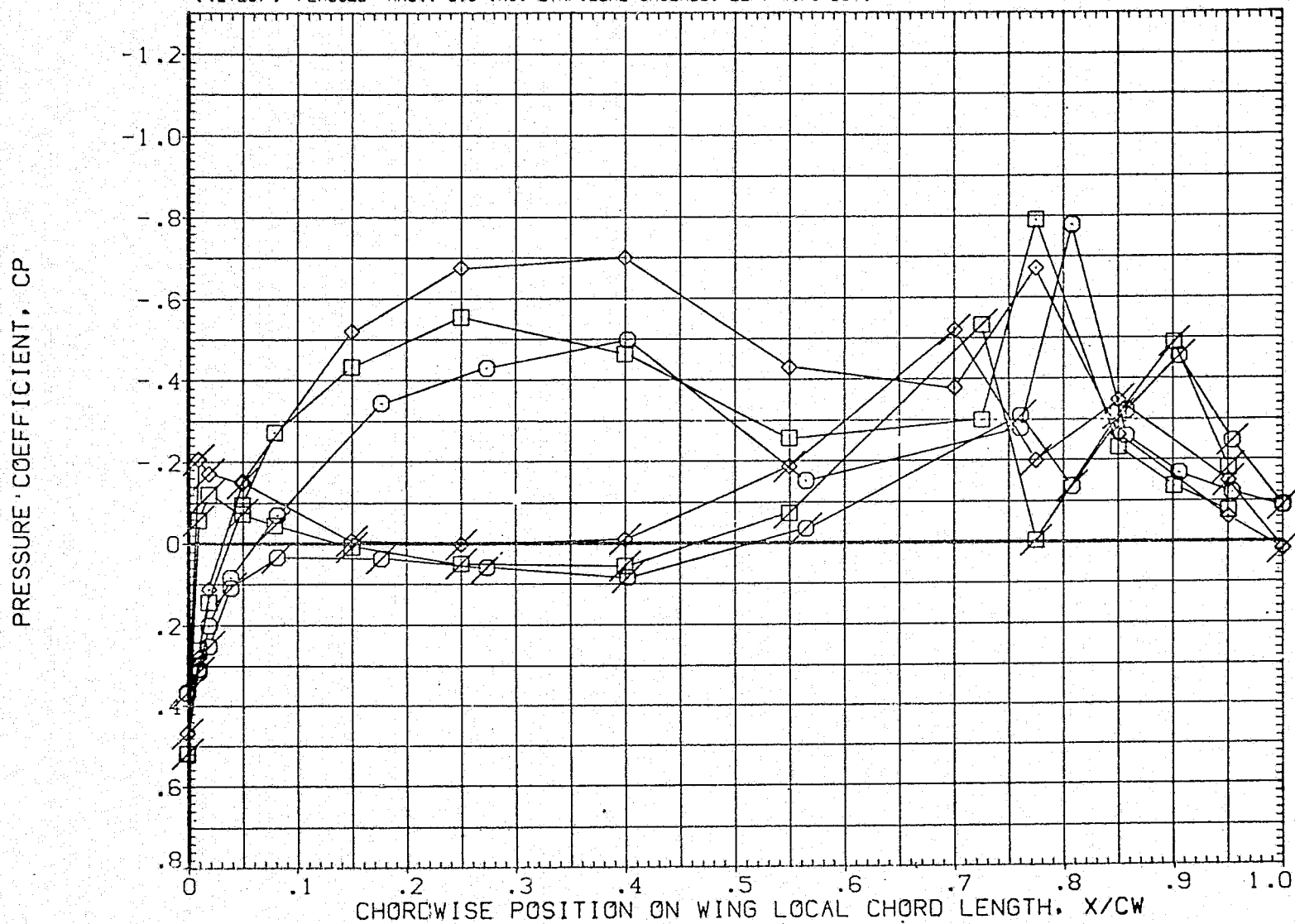


FIG. 73 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

SYMBOL	Y/BW	BETA0	ALPHA0
○	.780	.000	.000
□	.887		
◇	.972		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU07)	OPEN	ARC11-019 IAB1 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETL07)	FLAGGED	ARC11-019 IAB1 LVAP(ELHL UNSEALD) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

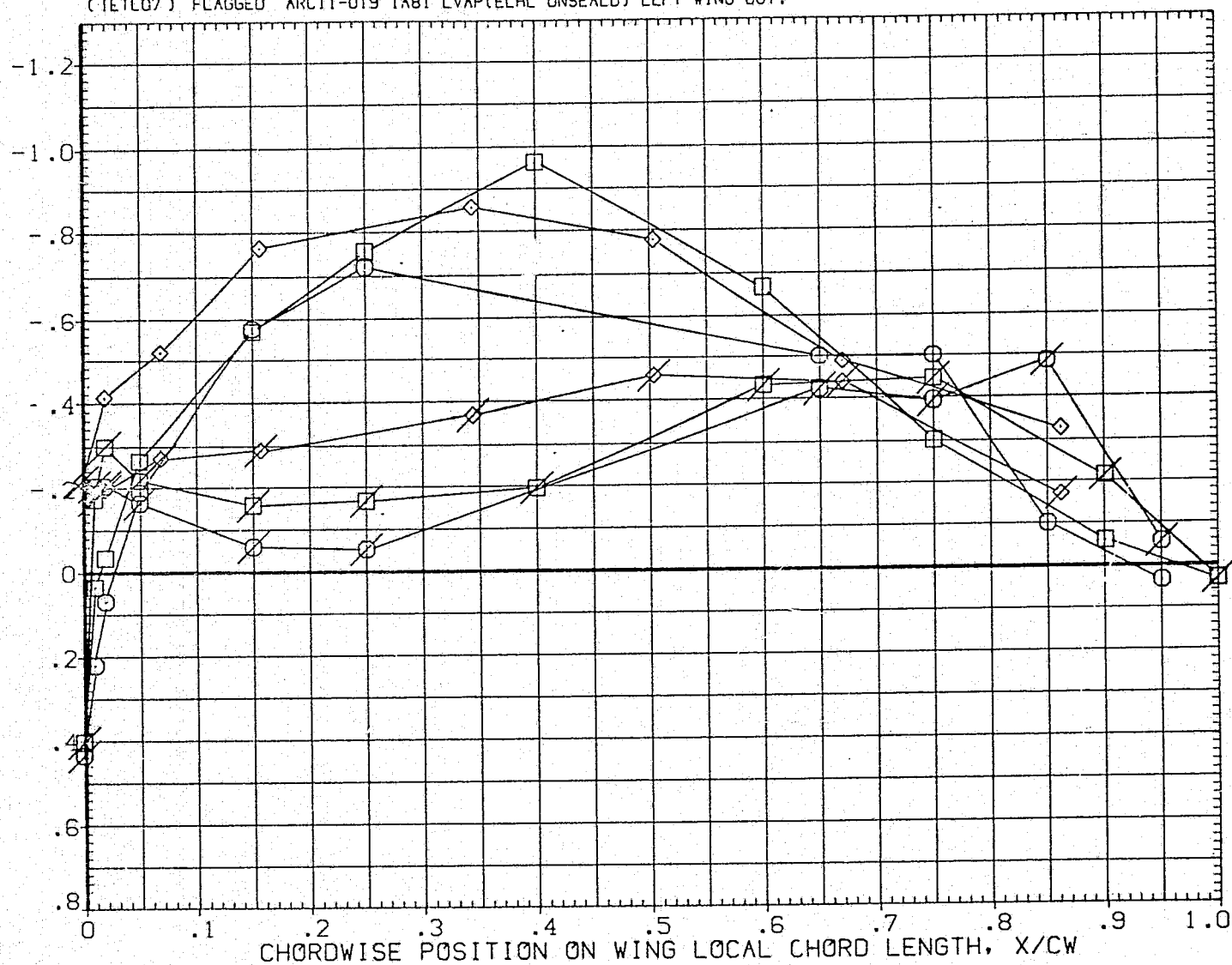
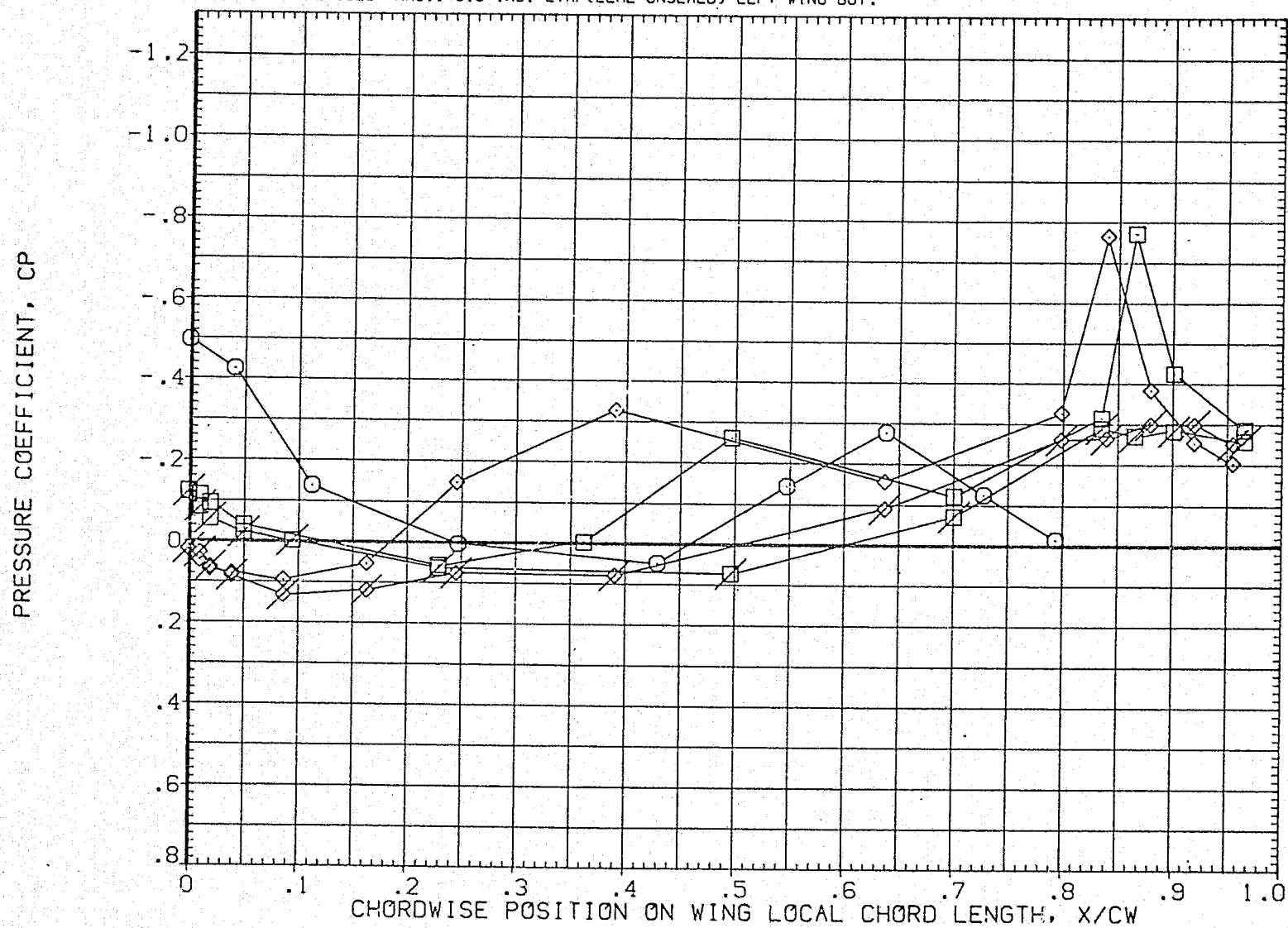


FIG. 73 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

SYMBOL	Y/BW	BETA0	ALPHA0
○	.235	4.000	.000
□	.299		
◇	.364		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU07)	OPEN	ARC11-019 IAB1 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETL07)	FLAGGED	ARC11-019 IAB1 LVAP(ELHL UNSEALD) LEFT WING BOT.



SYMBOL	Y/BW	BETA0	ALPHA0
○	.427	4.000	.000
□	.534		
◇	.673		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-1B	8.000	ELV-0B	1.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU07)	OPEN	ARC11-019 IA81 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETL07)	FLAGGED	ARC11-019 IA81 LVAP(ELHL UNSEALD) LEFT WING BOT.

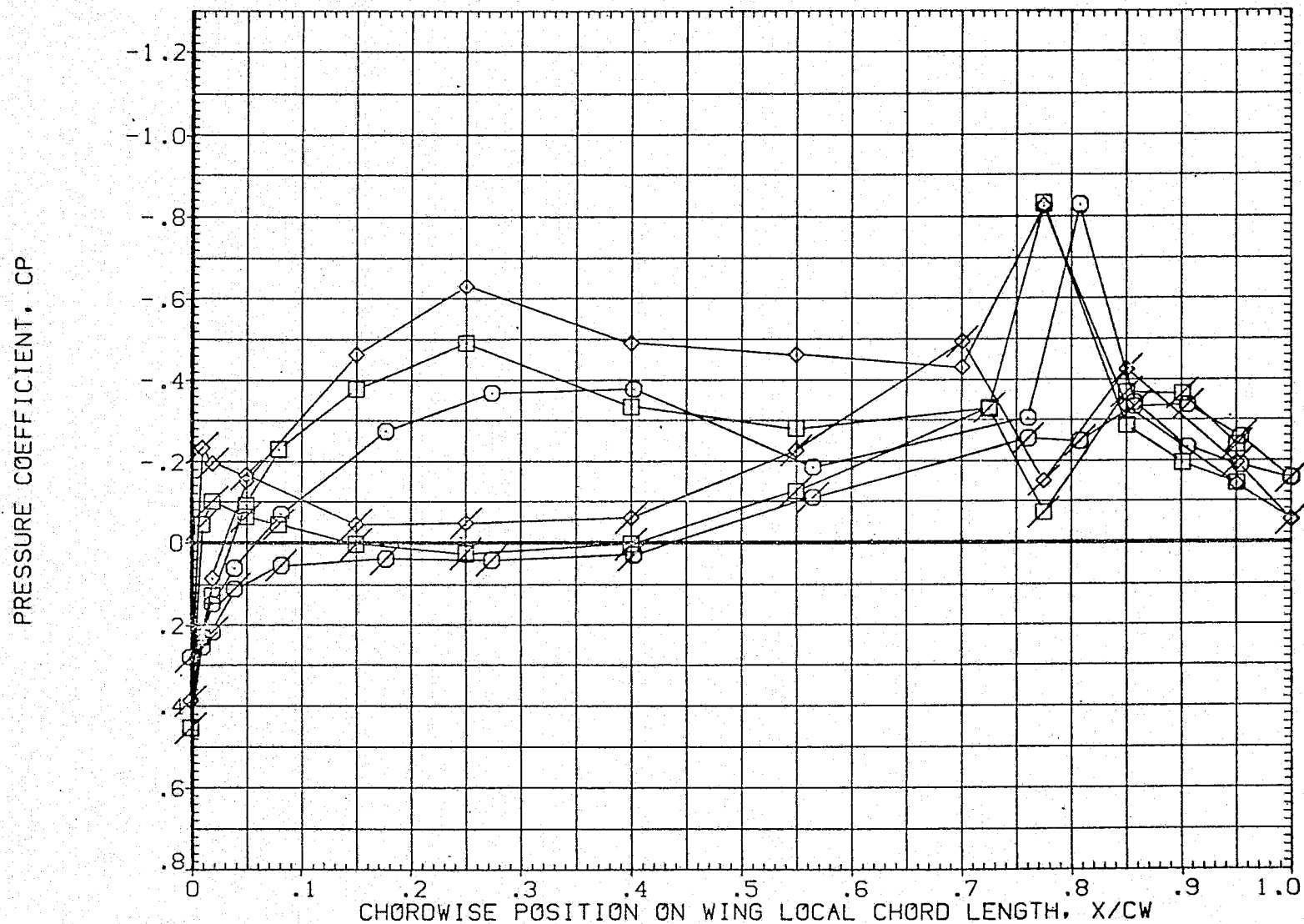


FIG. 73 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

SYMBOL	Y/BW	BETA0	ALPHA0
○	.780	4.000	.000
□	.887		
◇	.972		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU07)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETL07)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

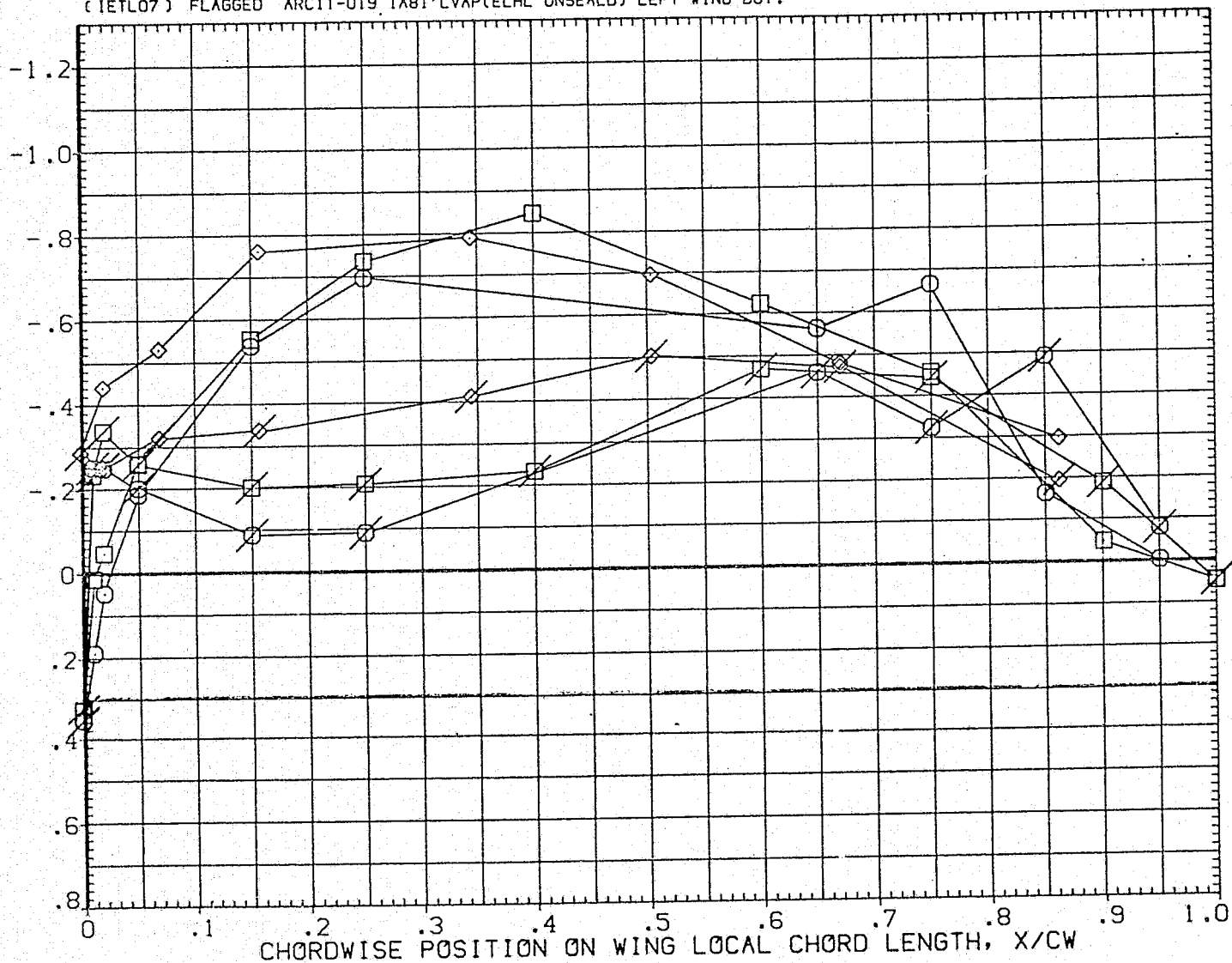


FIG. 73 WING CHORDWISE PRESS. DIST., ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 0.9

SYMBOL	Y/BW	BETA0	ALPHA0
○	.235	-4.000	4.000
□	.299		
◇	.364		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU07)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETL07)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

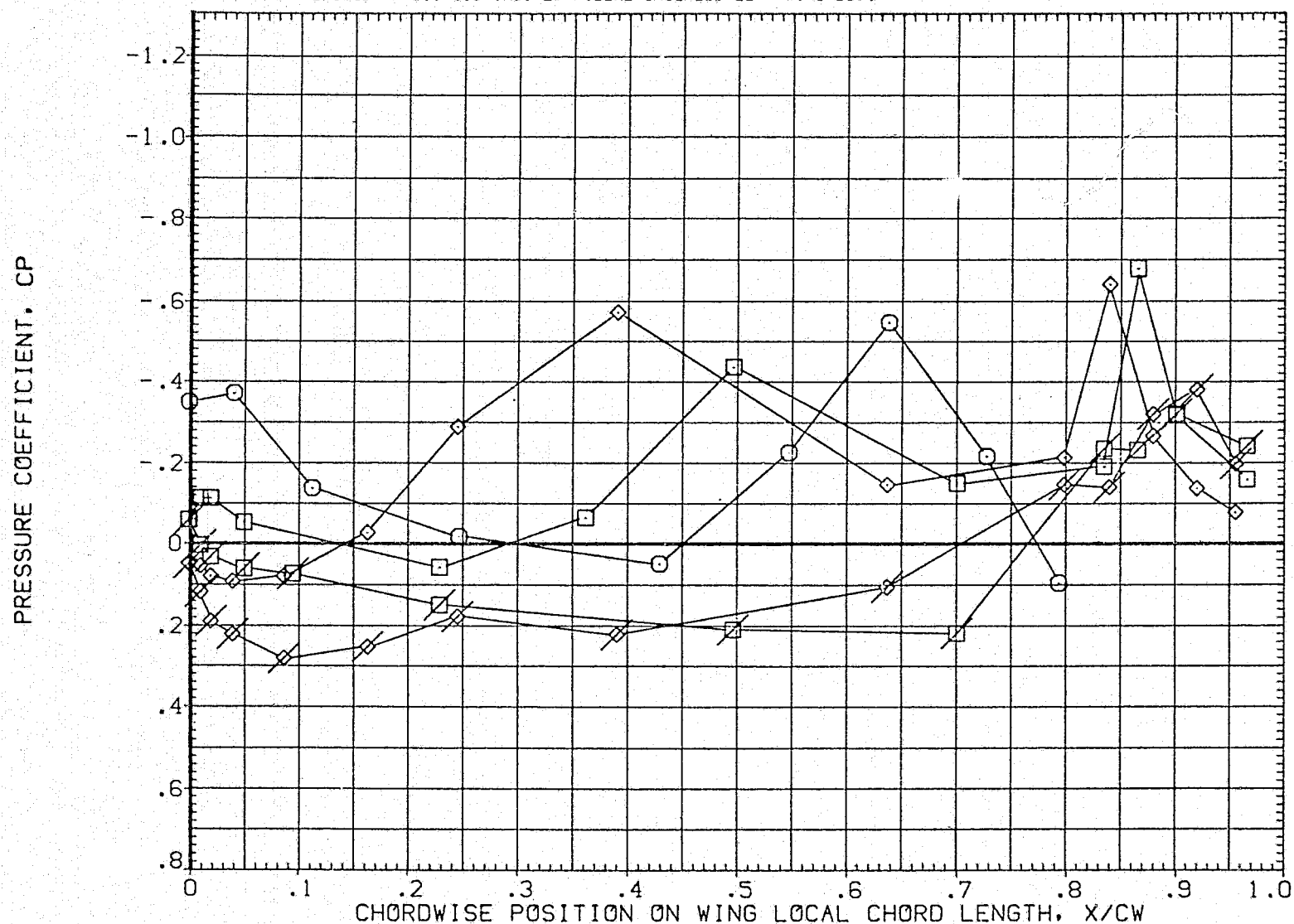


FIG. 73 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

SYMBOL	Y/BW	BETA0	ALPHA0
○	.427	-4.000	4.000
□	.534		
◇	.673		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU07)	OPEN	ARC11-019 (A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETL07)	FLAGGED	ARC11-019 (A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

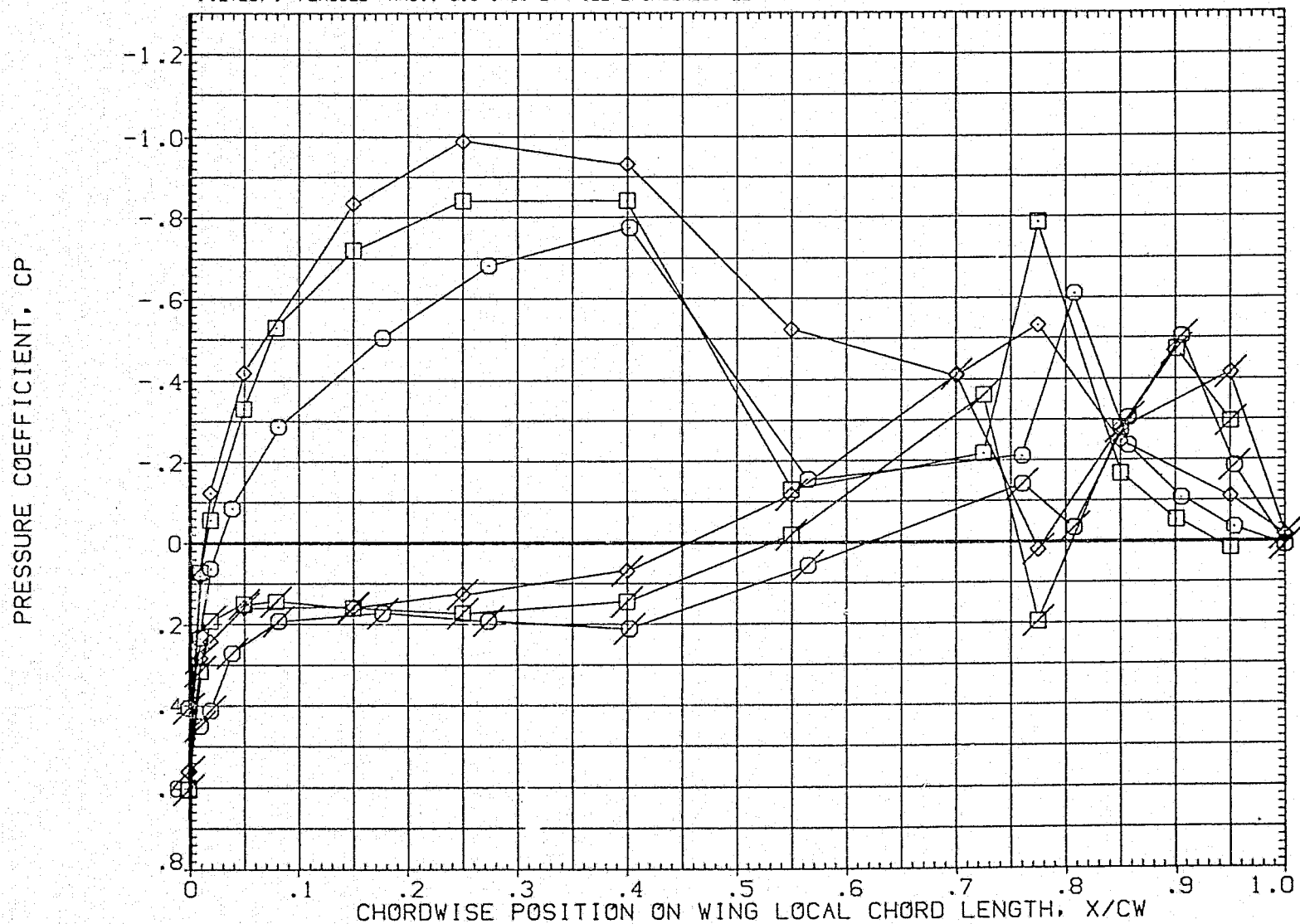


FIG. 73 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

SYMBOL	γ/BW	BETA0	ALPHA0
○	.780	-4.000	4.000
□	.887		
◇	.972		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU07)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETL07)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

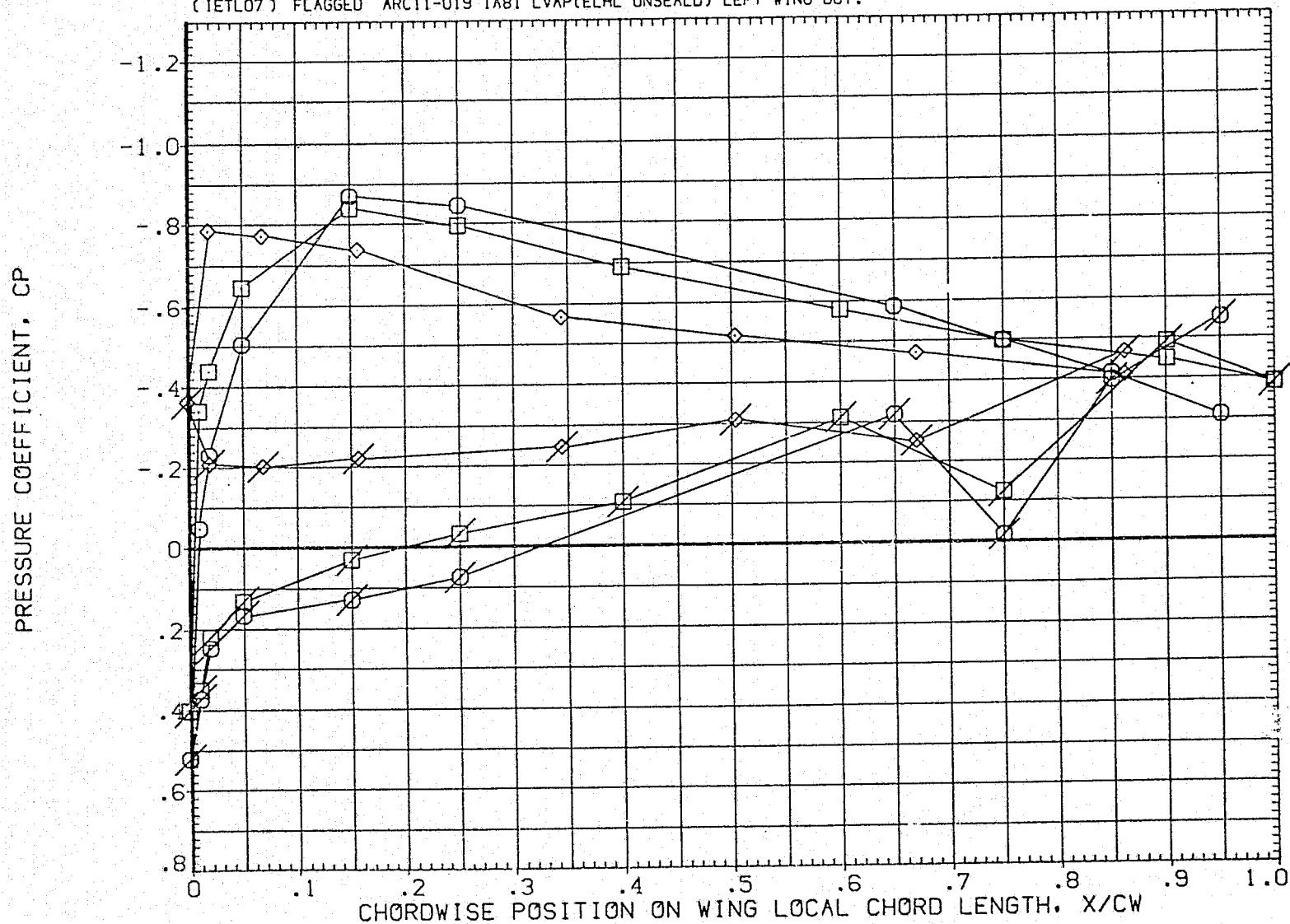


FIG. 73 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

SYMBOL	Y/BW	BETA0	ALPHA0
○	.235	.000	4.000
□	.299		
◇	.364		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU07)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETL07)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

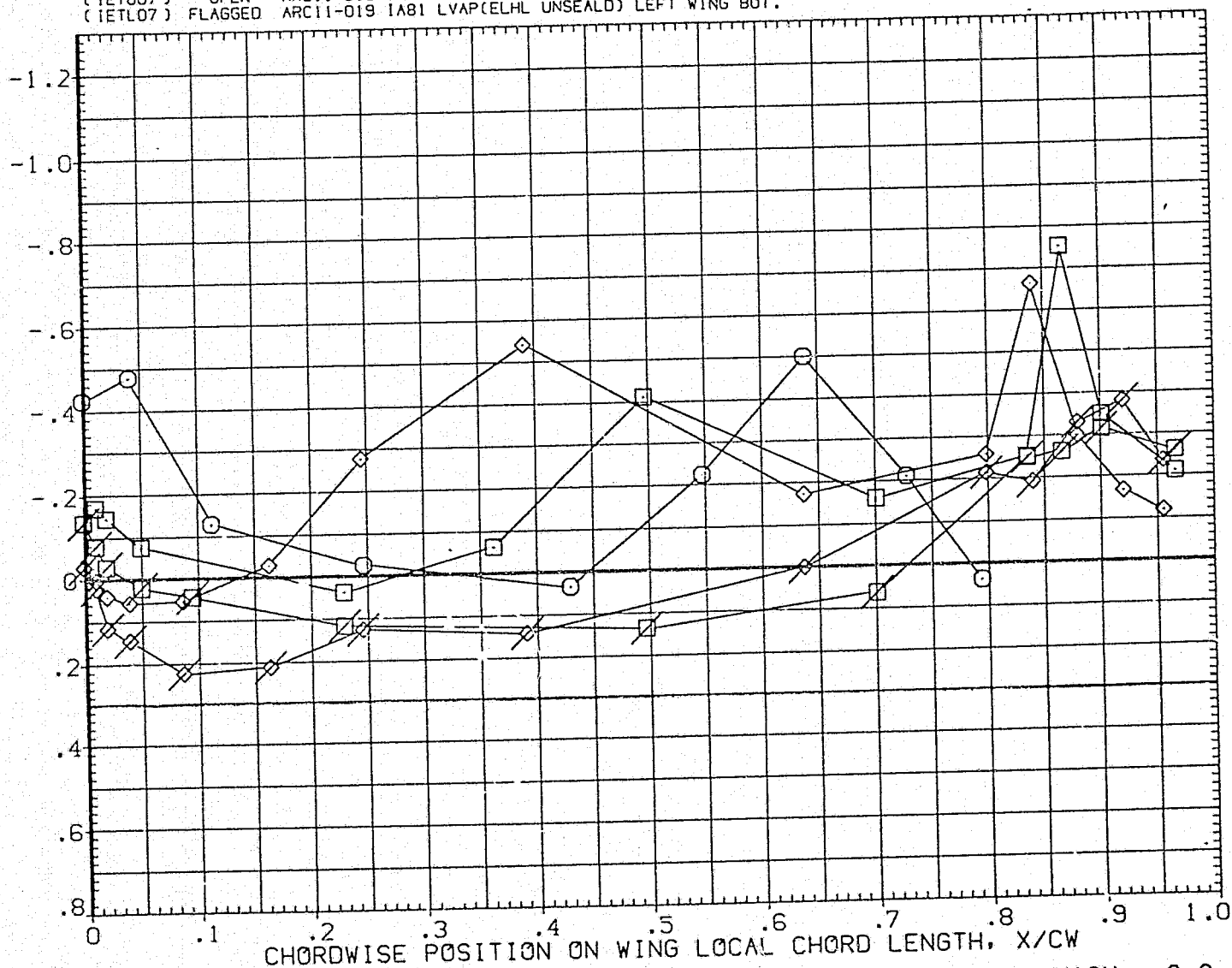


FIG. 73 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

SYMBOL	Y/BW	BETA0	ALPHA0
○	.427	.000	4.000
□	.534		
◇	.673		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(1ETU07)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(1ETU07)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

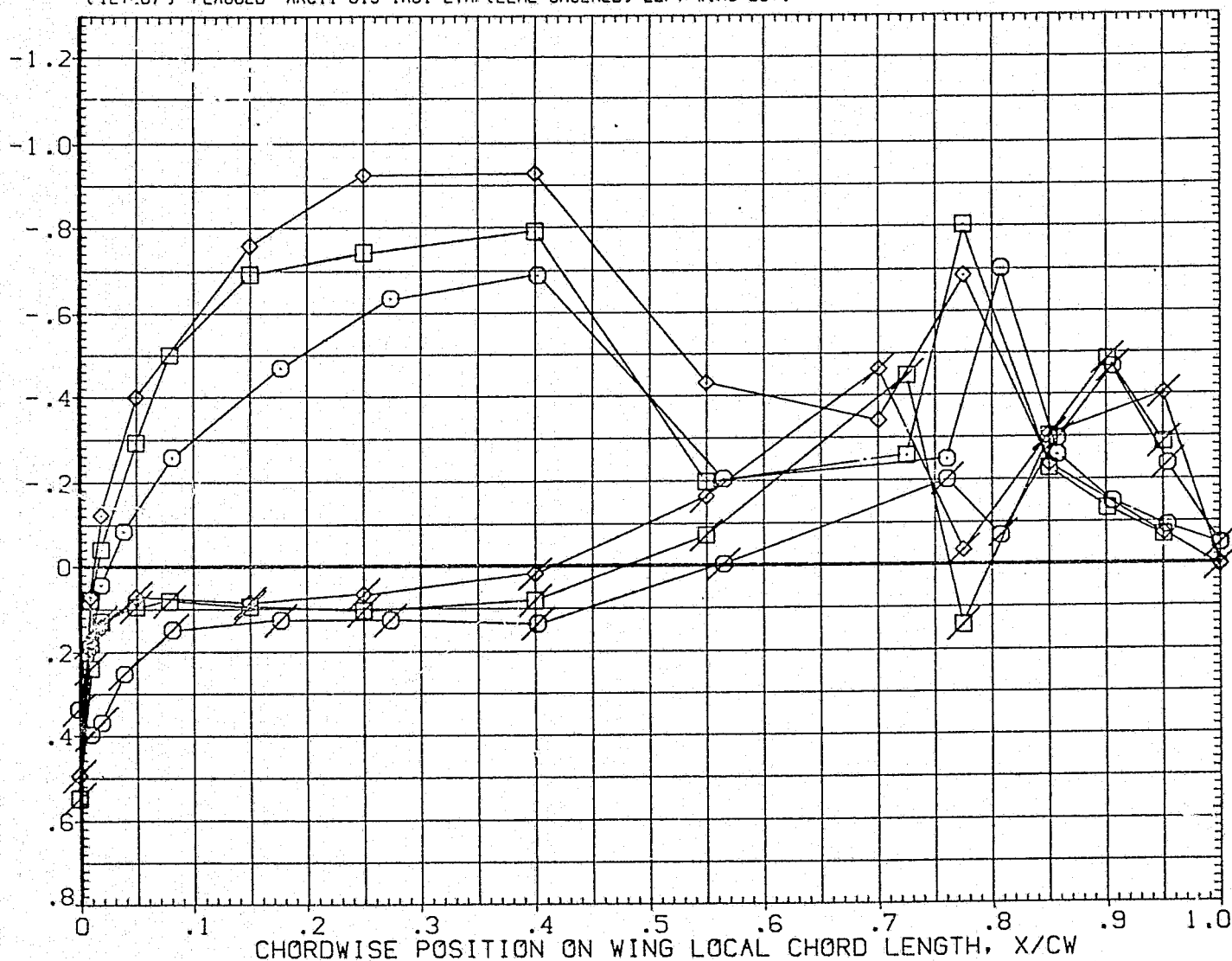


FIG. 73 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

SYMBOL	Y/BW	BETA0	ALPHA0
○	.780	.000	4.000
□	.887		
◇	.972		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU07)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETL07)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

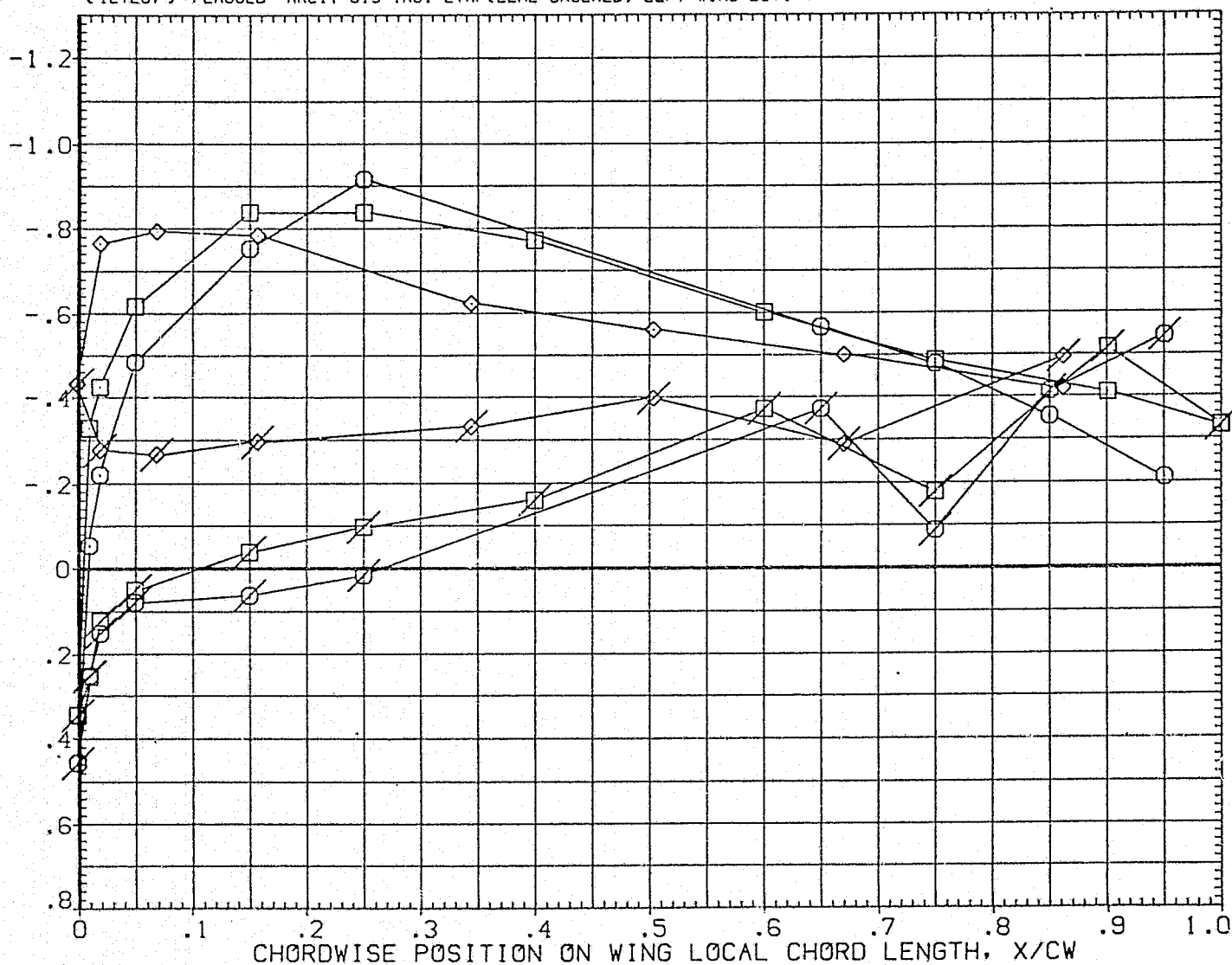


FIG. 73 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

SYMBOL	Y/BW	BETA0	ALPHA0
○	.235	4.000	4.000
□	.299		
◇	.364		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-1B	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU07)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETL07)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

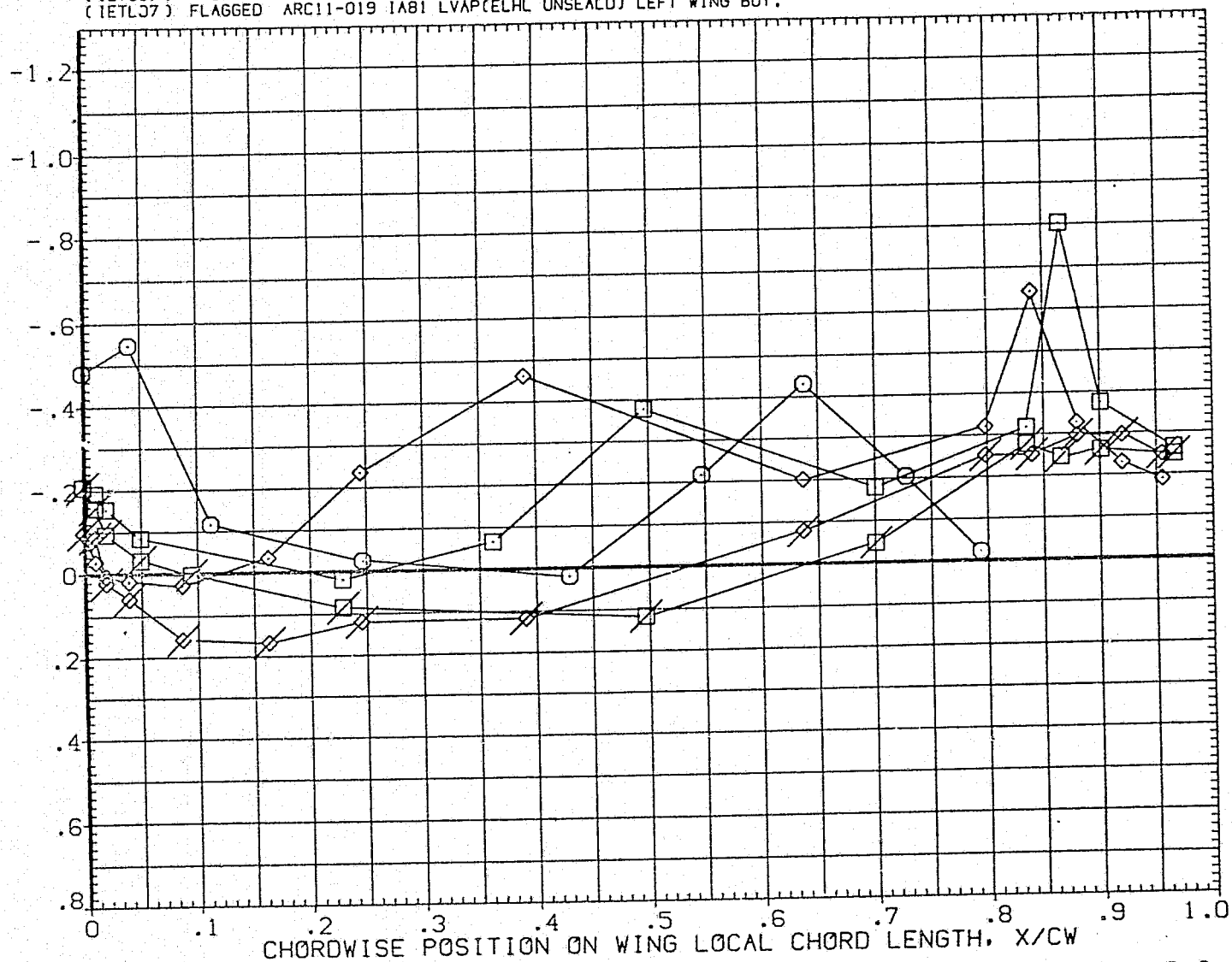


FIG. 73 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

SYMBOL	Y/BW	BETA0	ALPHA0
○	.427	4.000	4.000
□	.534		
◇	.673		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(1ETU07)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP
(1ETL07)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

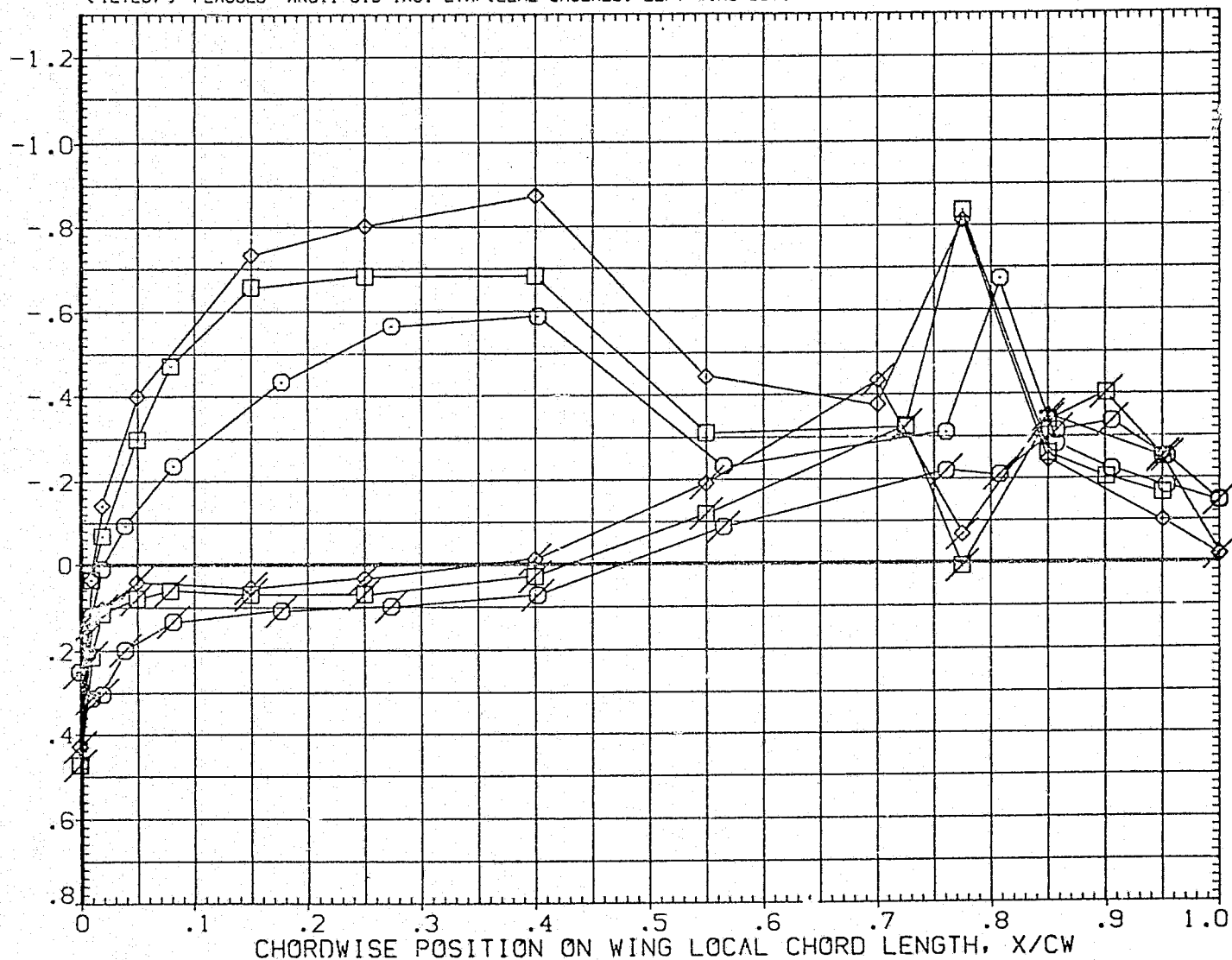


FIG. 73 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

SYMBOL	Y/BW	BETA0	ALPHA0
○	.780	4.000	4.000
□	.887		
◇	.972		

PARAMETRIC VALUES			
MACH	.900	RN/FT	2.250
ELV-18	8.000	ELV-08	1.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU07)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETL07)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

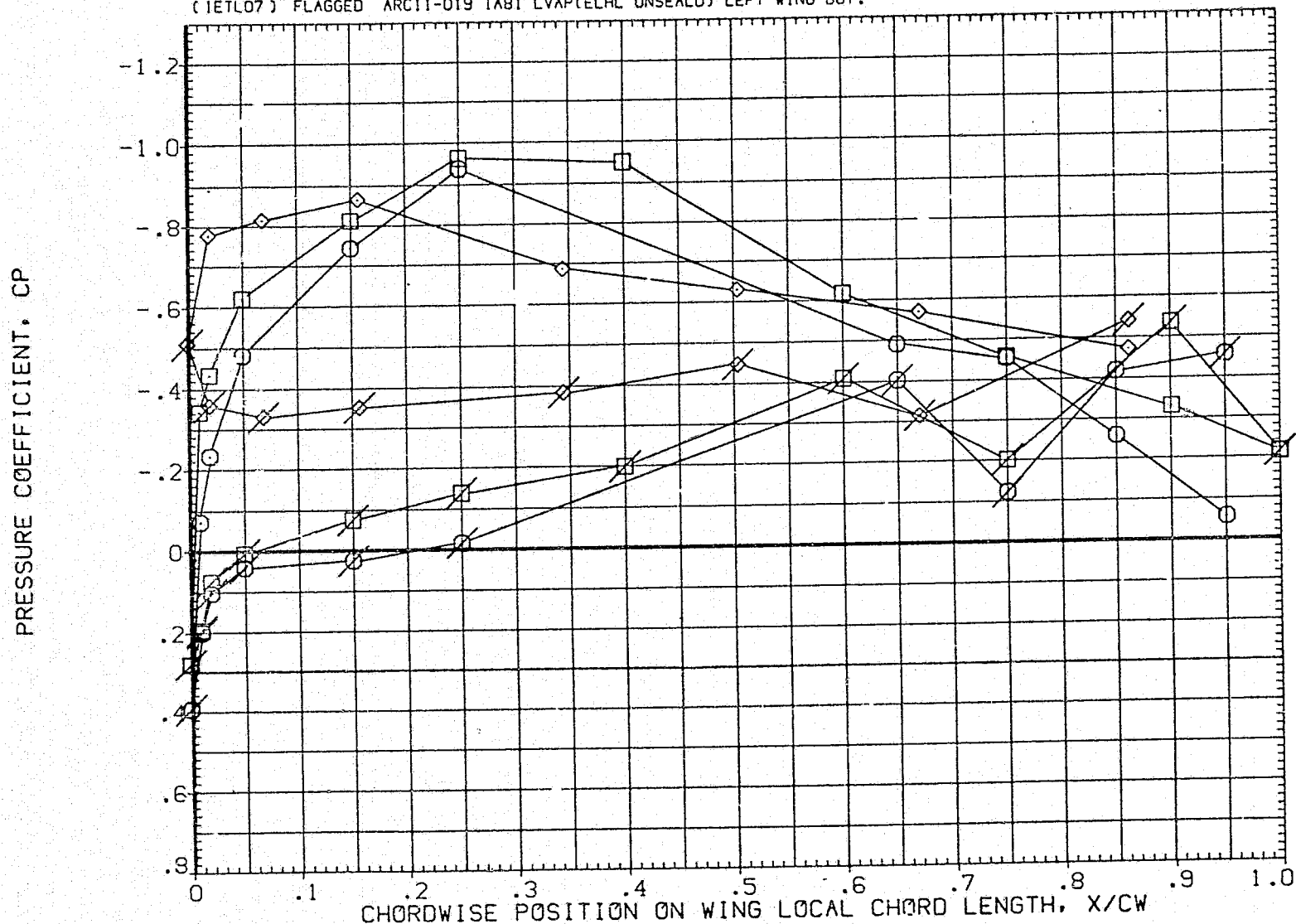


FIG. 73 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 0.9

SYMBOL	Y/BW	BETA0	ALPHA0
○	.235	-4.000	-4.000
□	.299		
◇	.364		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU09)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING 1 >
(IETL09)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

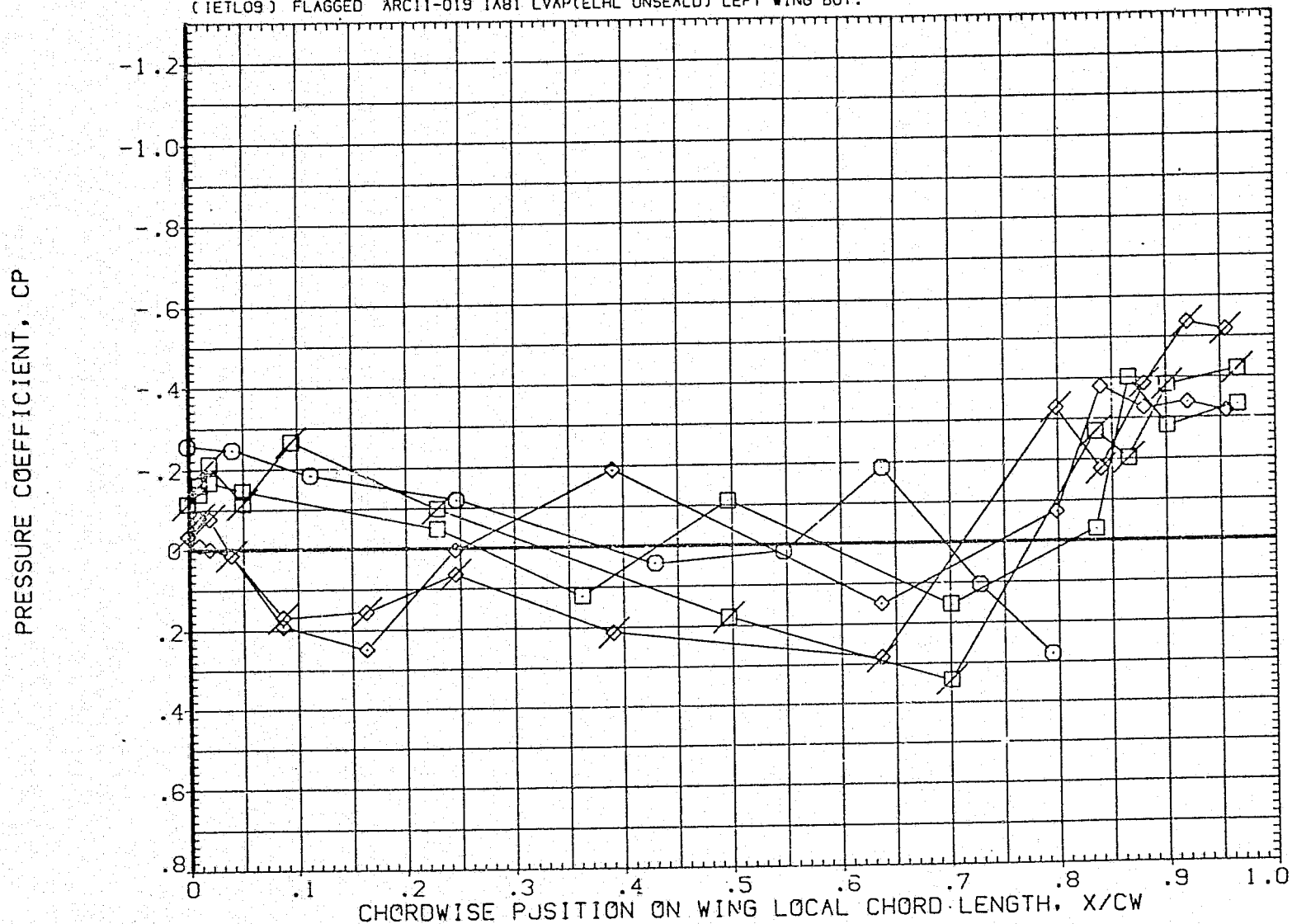


FIG. 74 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

SYMBOL	Y/BW	BETA0	ALPHA0
○	.427	-4.000	-4.000
□	.534		
◇	.673		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-IB	8.000	ELV-CB	4.000
RUDDER	.000	SPDSRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETJ09)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP
(IETL09)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.

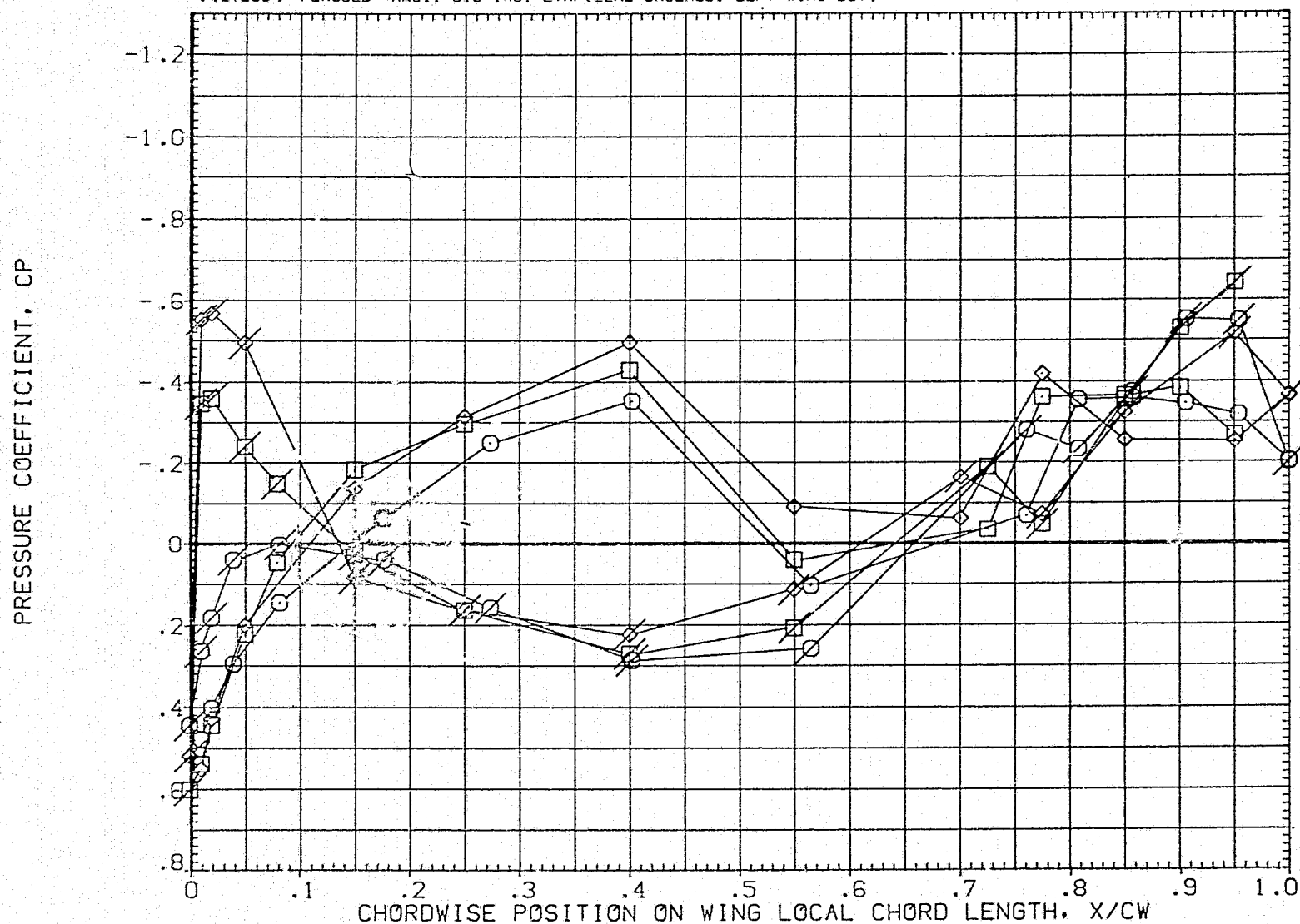


FIG. 74 WING CHORDWISE PRESS. DIST., ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 1.1

SYMBOL	Y/BW	BETA0	ALPHA0
○	.780	-4.000	-4.000
□	.887		
◇	.972		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU09)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETL09)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

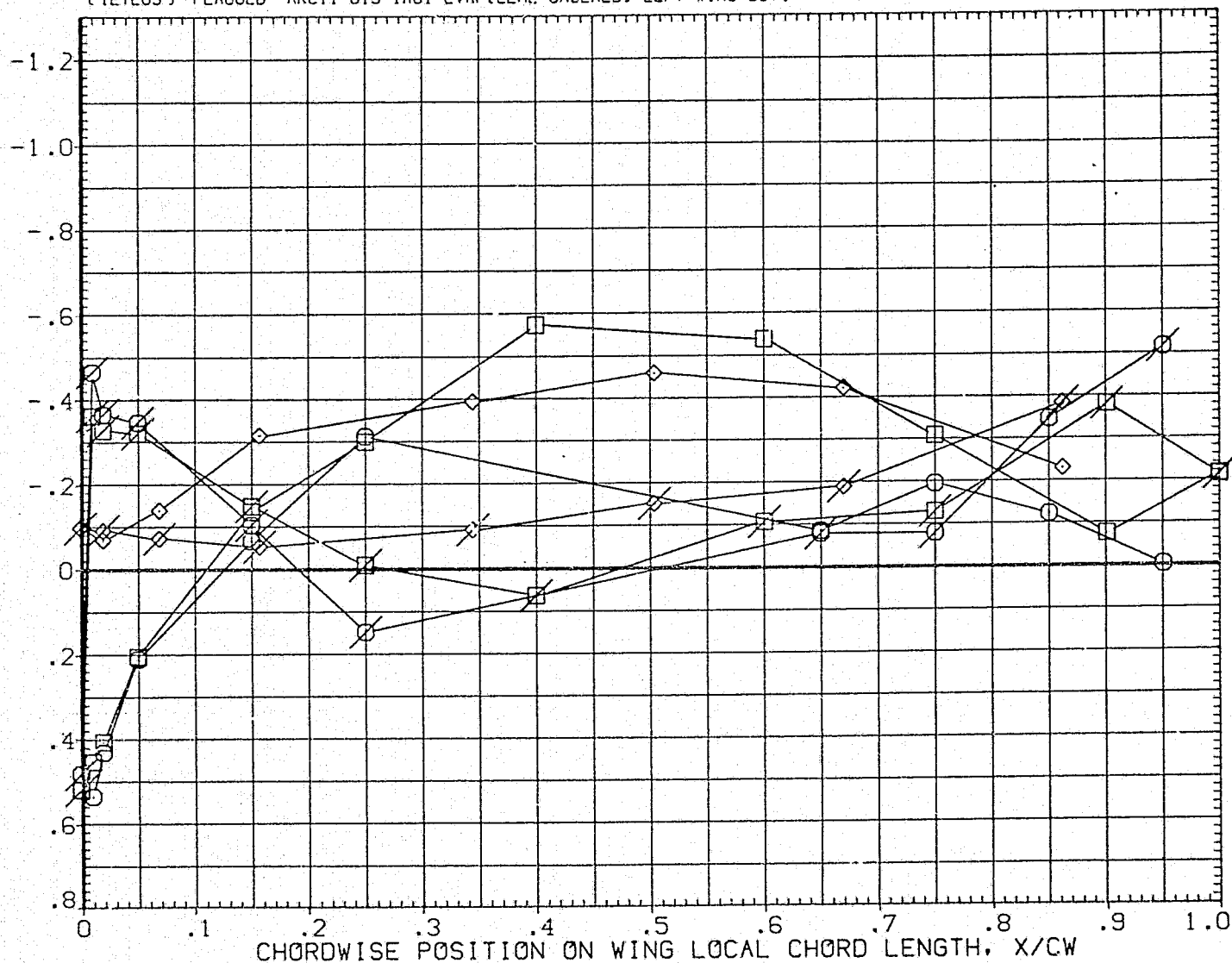


FIG. 74 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

SYMBOL	Y/BW	BETA0	ALPHA0
○	.235	.000	-4.000
□	.299		
◇	.364		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU09)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETL09)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

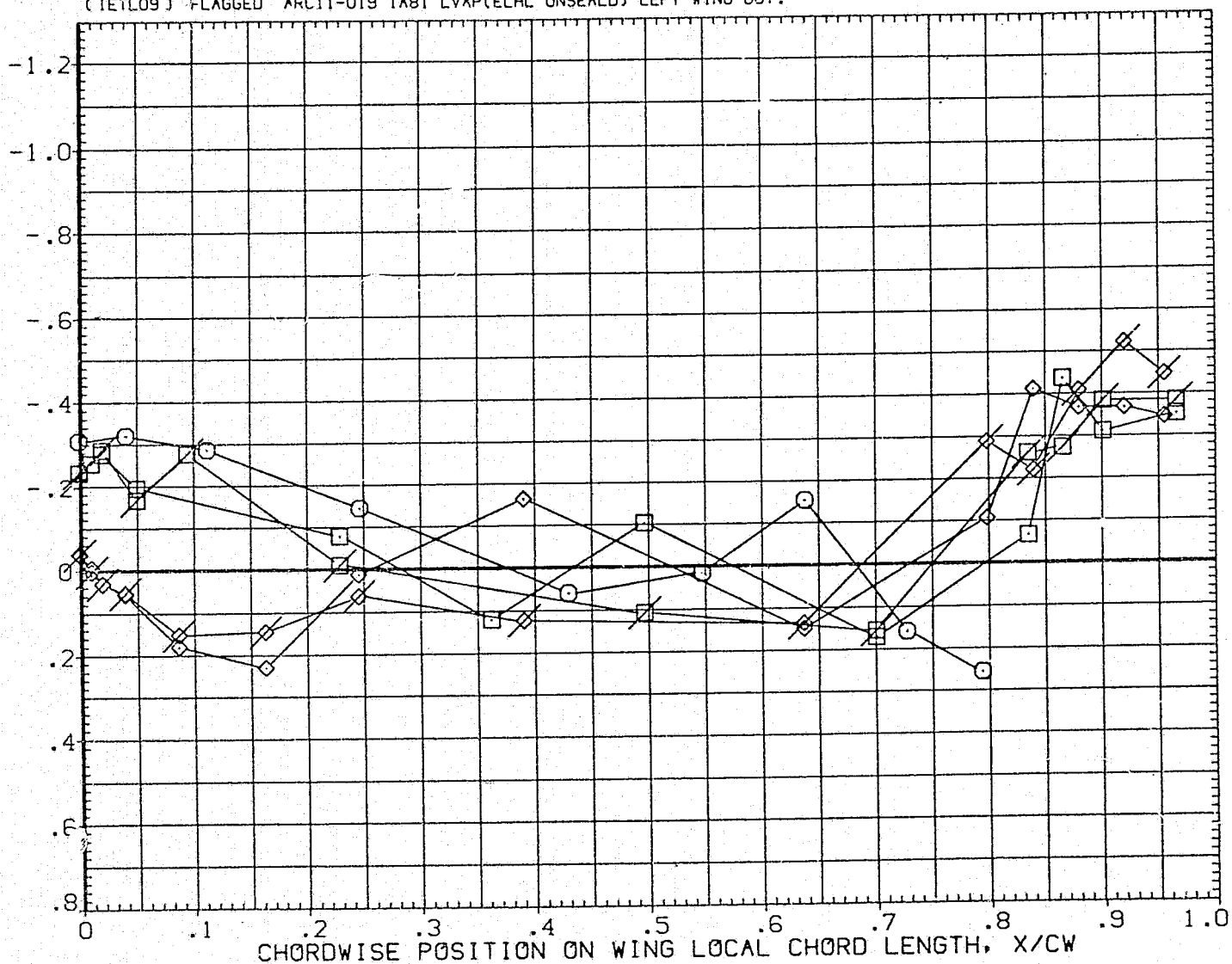


FIG. 74 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

SYMBOL	Y/BW	BETA0	ALPHA0
○	.427	.000	-4.000
□	.534		
◇	.673		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(1ETU09)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(1ETL09)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

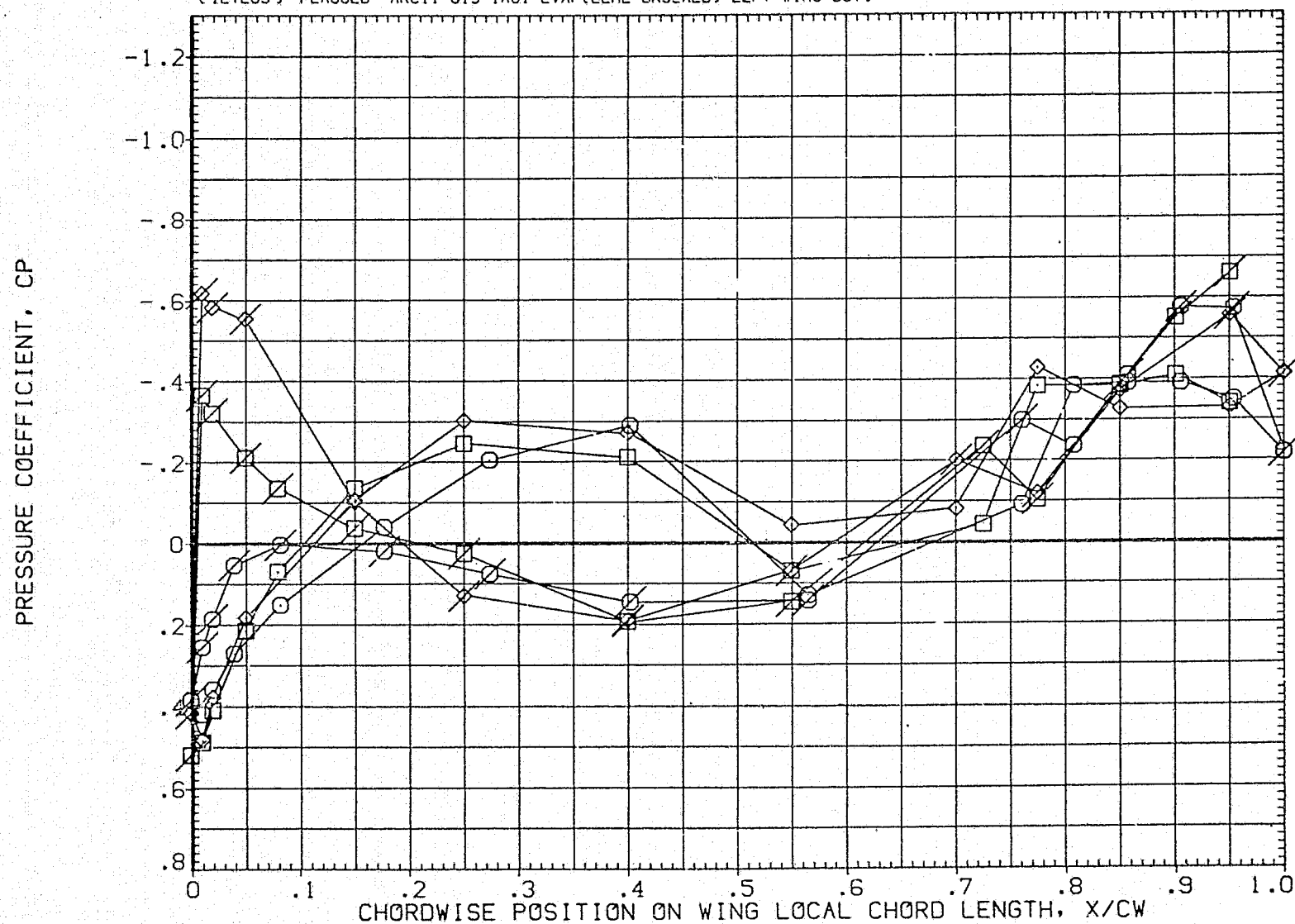


FIG. 74 WING CHORDWISE PRESS. DIST., ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 1.1

SYMBOL	Y/BW	BETA0	ALPHA0
□	.780	.000	-4.000
◇	.887		
◇	.972		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU09)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETLO9)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

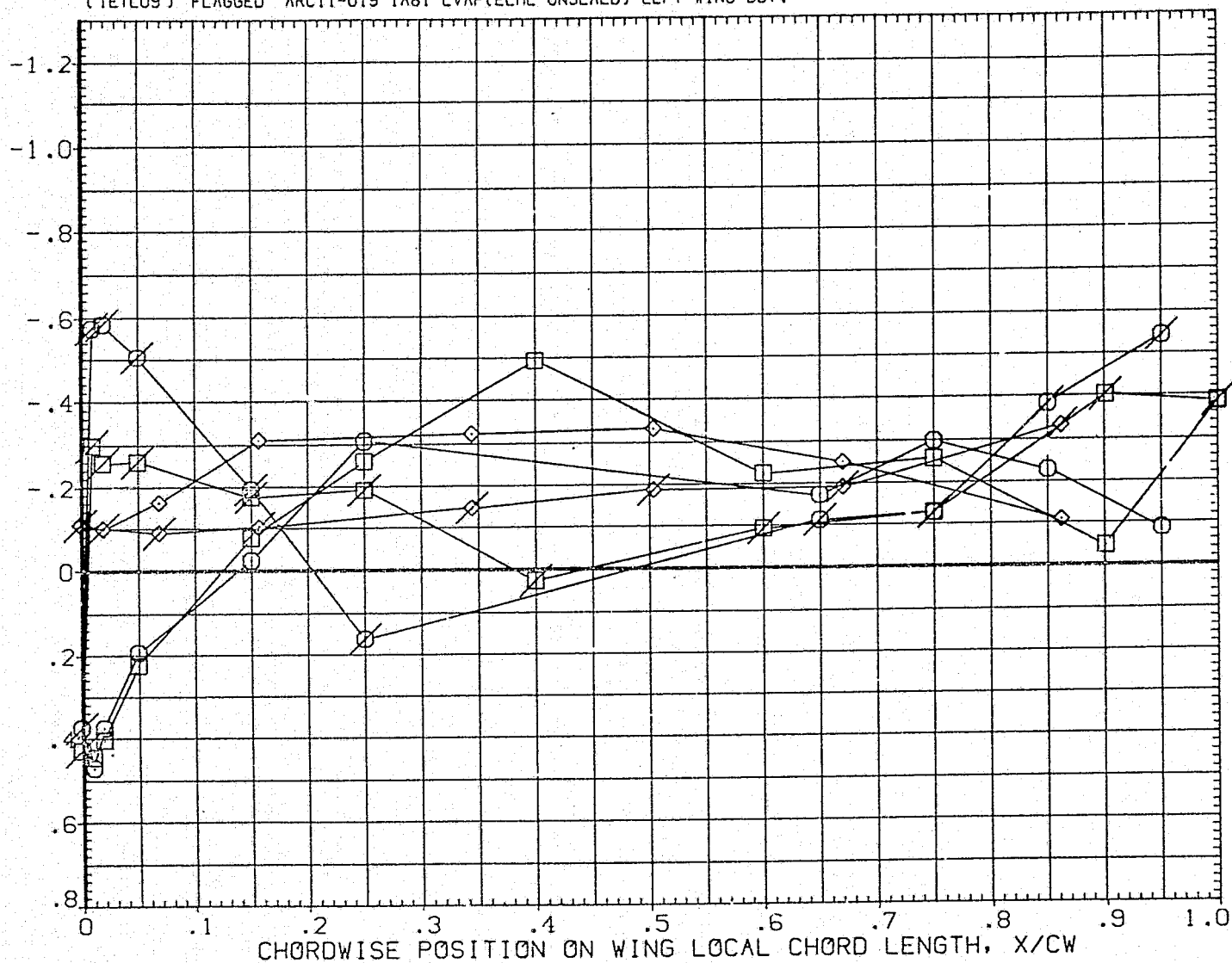


FIG. 74 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

SYMBOL	Y/BW	BETA0	ALPHA0
○	.235	4.000	-4.000
□	.299		
◇	.364		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-19	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(1ETU09)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(1ETL09)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

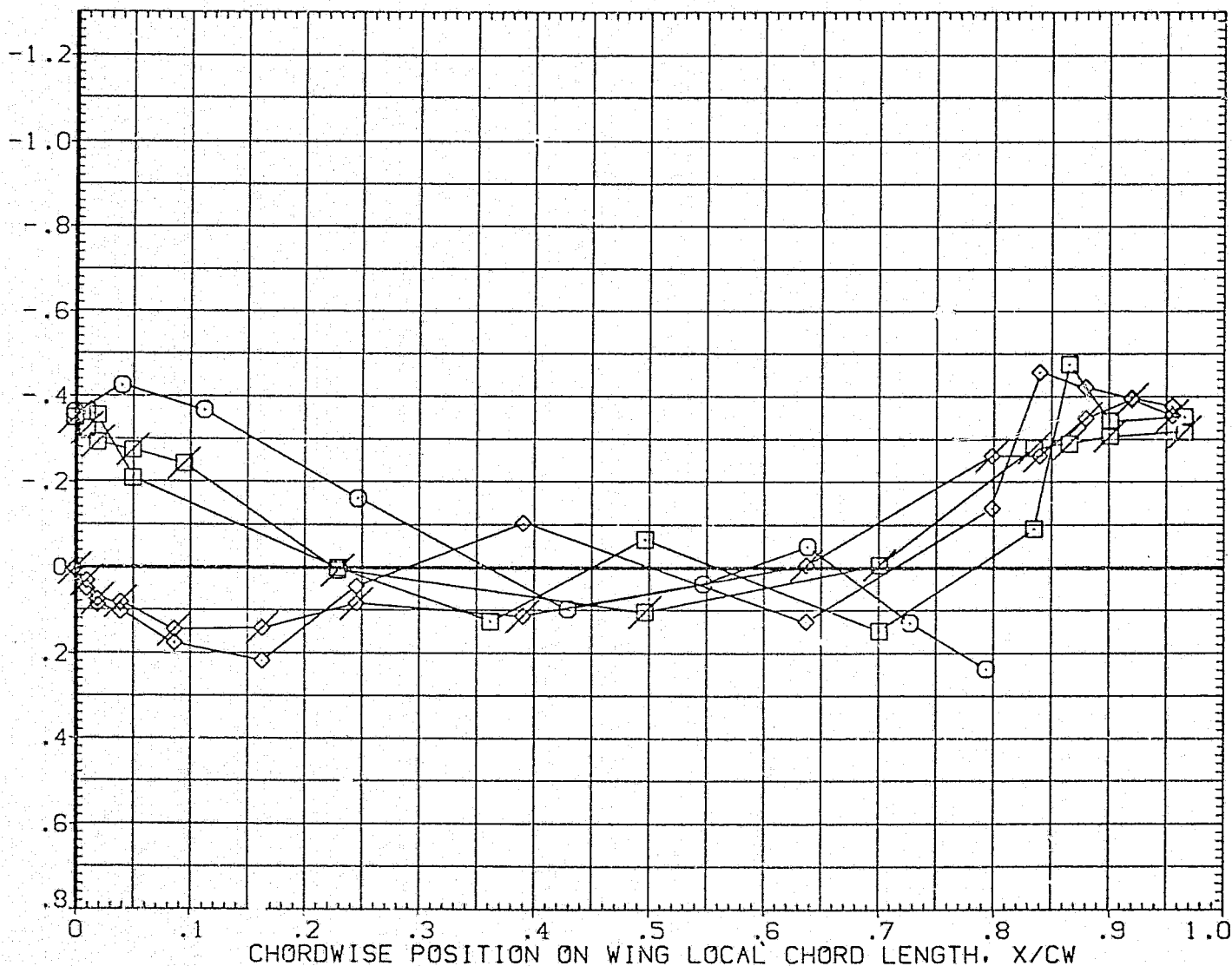


FIG. 74 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

SYMBOL	Y/BW	BETA0	ALPHA0
○	.427	4.000	-4.000
□	.534		
◇	.673		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU09)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETL09)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

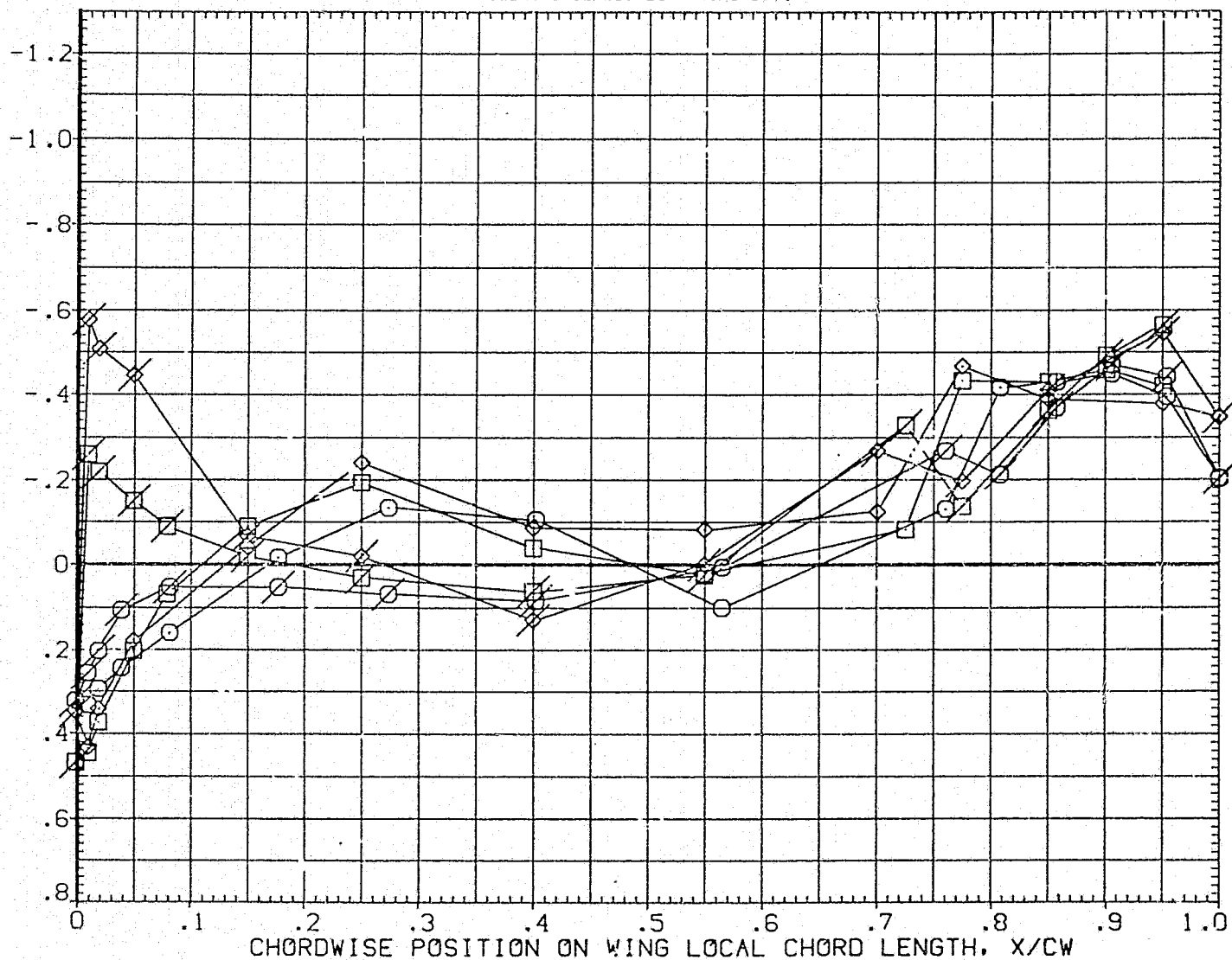


FIG. 74 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

SYMBOL	Y/BW	BETA0	ALPHA0
○	.780	4.000	-4.000
□	.887		
◇	.972		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPOBRK	.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (IETU09) OPEN ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
 (IETLO9) FLAGGED ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

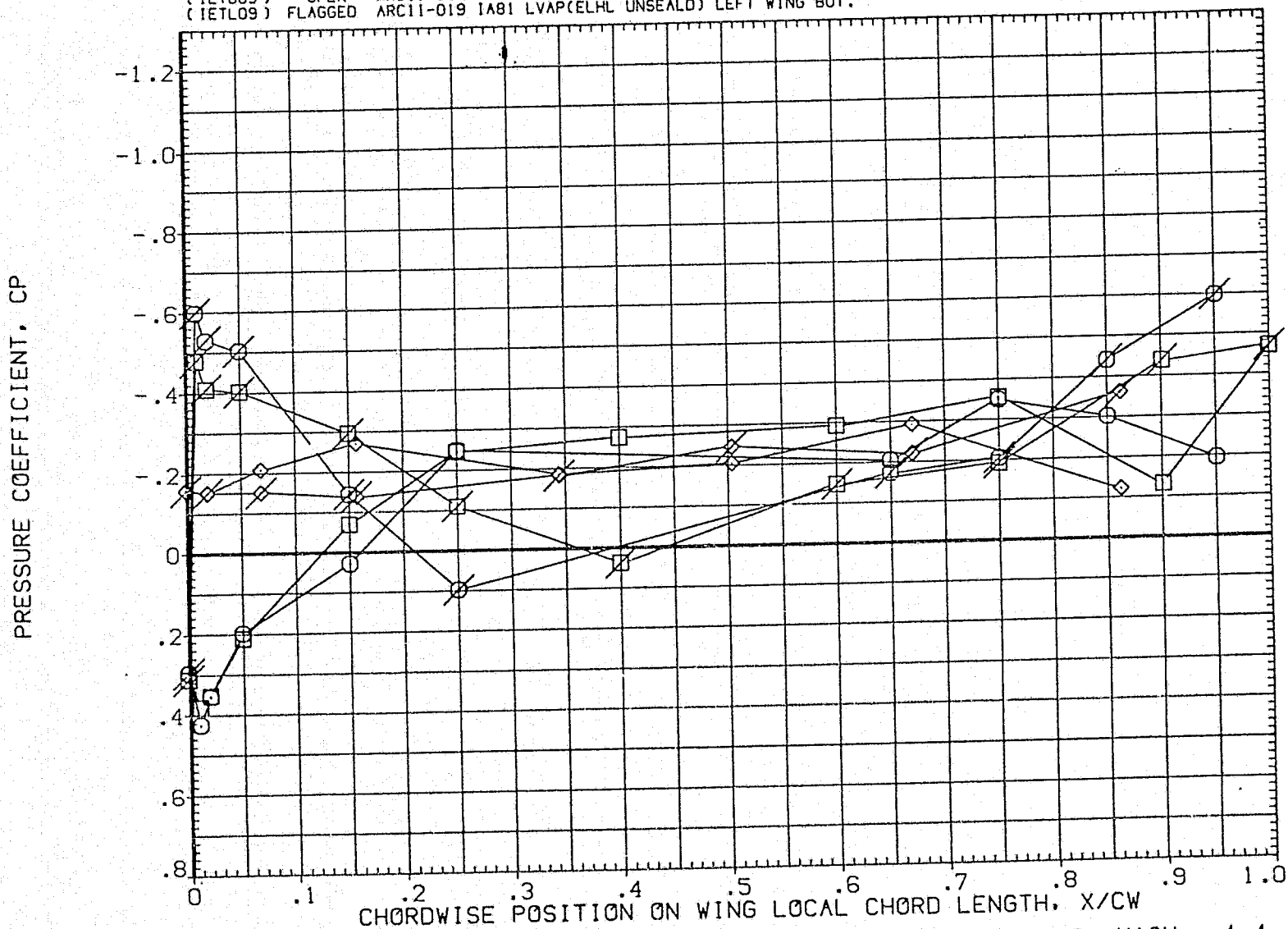


FIG. 74 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

SYMBOL	Y/BW	BETA0	ALPHA0
○	.235	-4.000	.000
□	.299		
◇	.364		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU09)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP
(IETL09)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.

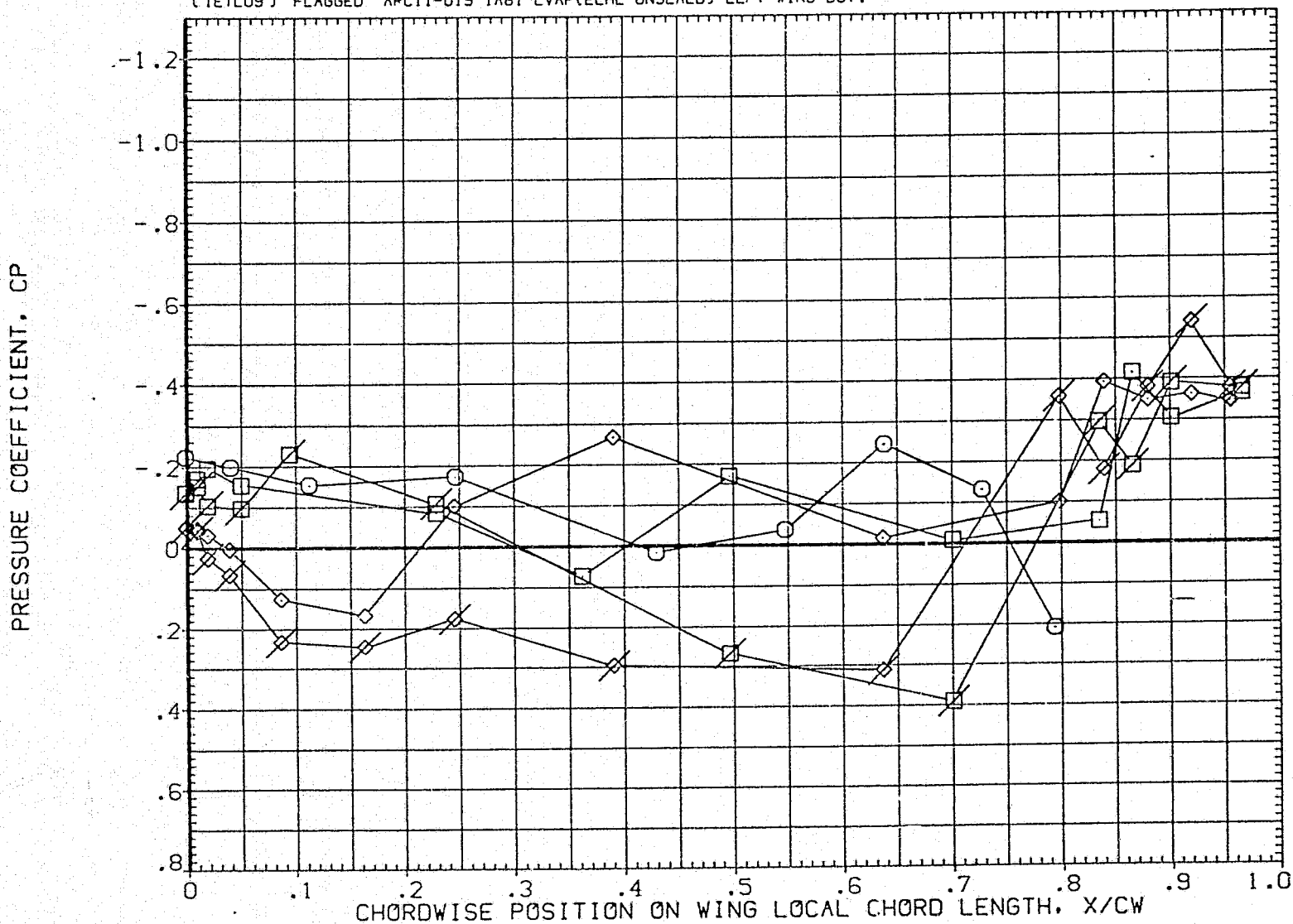


FIG. 74 WING CHORDWISE PRESS. DIST., ELEVON I/O = 3/4, SPDBRK = 0, MACH = 1.1

SYMBOL	Y/BW	BETA0	ALPHA0
○	.427	-4.000	.000
□	.534		
◇	.673		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
{ IETU09 }	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
{ IETL09 }	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

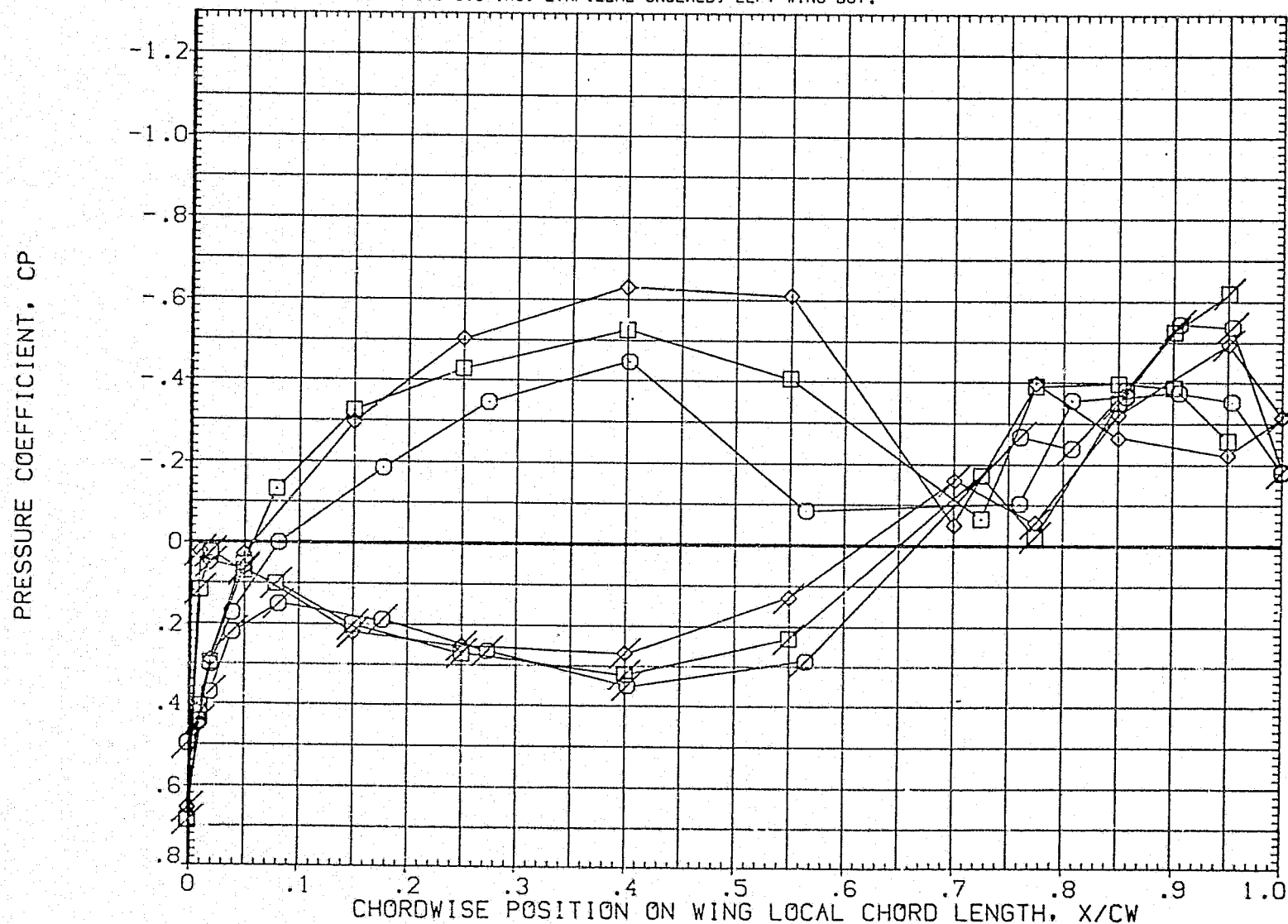


FIG. 74 WING CHORDWISE PRESS. DIST., ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 1.1

SYMBOL	Y/BW	BETAG	ALPHA0
○	.780	-4.000	.000
□	.887		
◇	.972		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU09)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETL09)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

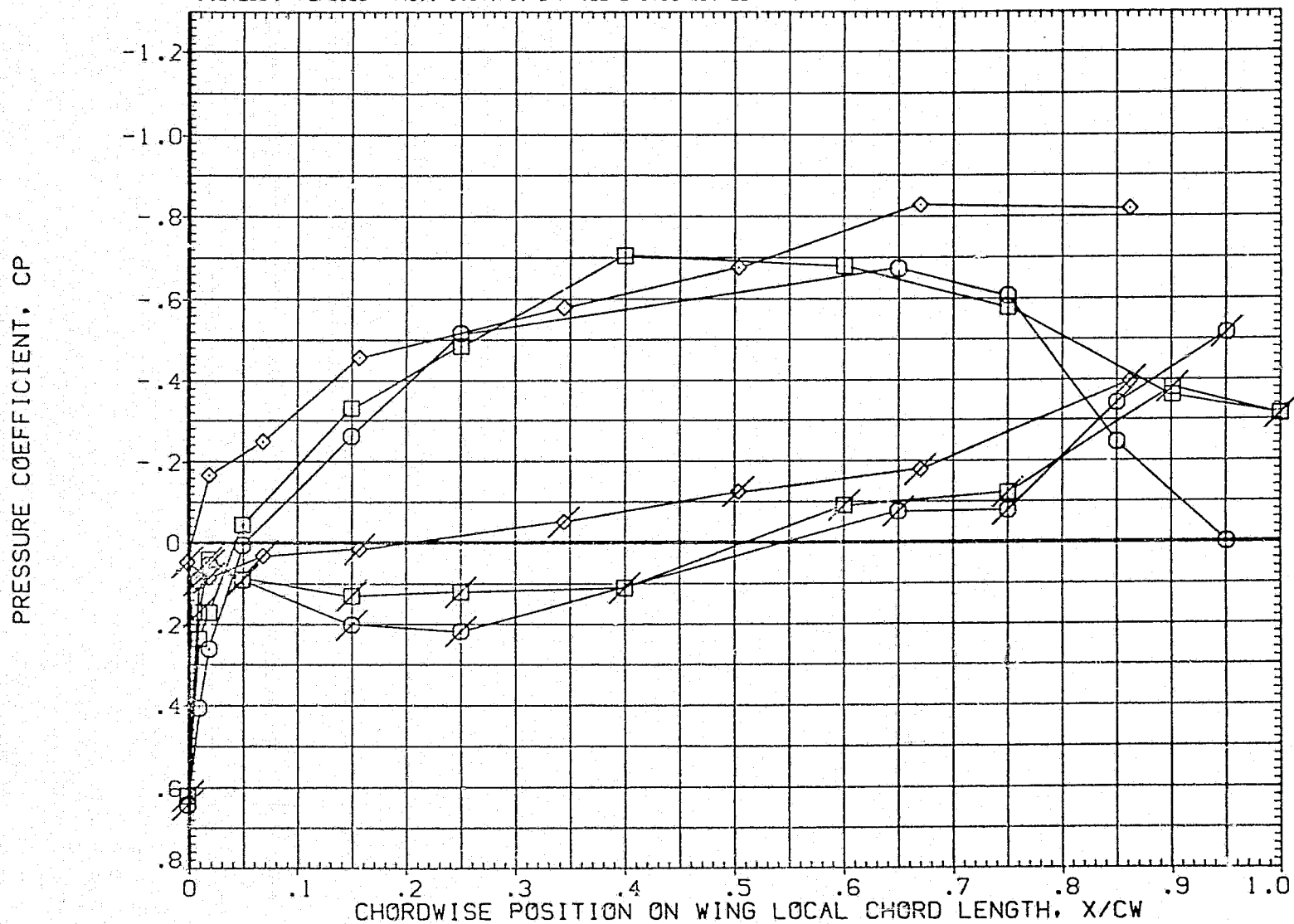


FIG. 74 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

SYMBOL	Y/BW	BETA0	ALPHA0
○	.235	.000	.000
□	.299		
◇	.364		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPOBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU09)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETL09)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

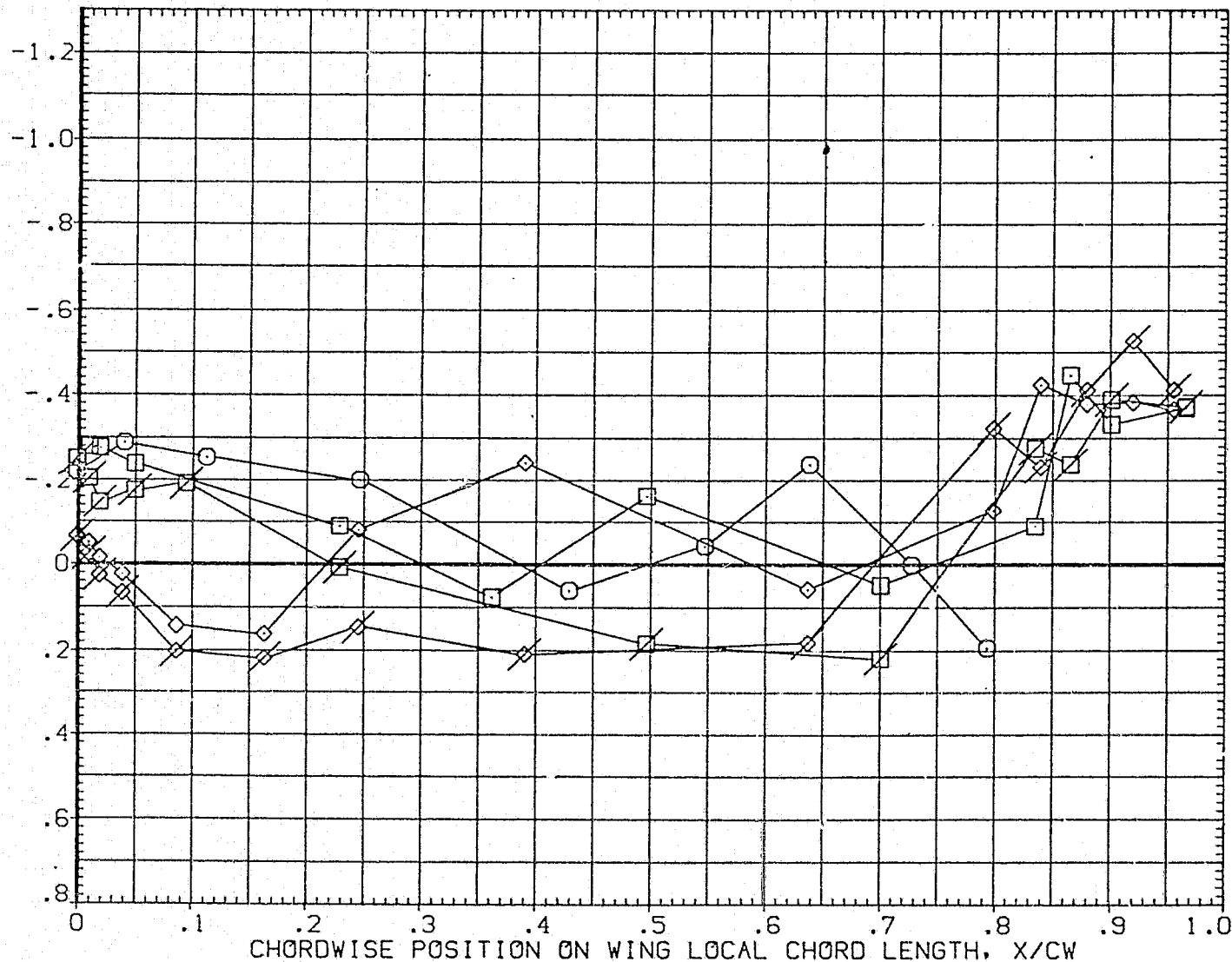


FIG. 74 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPOBRK = 0, MACH = 1.1

SYMBOL	Y/BW	BETA0	ALPHA0
○	.427	.000	.000
□	.534		
◇	.673		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(1ETU09)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(1ETL09)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

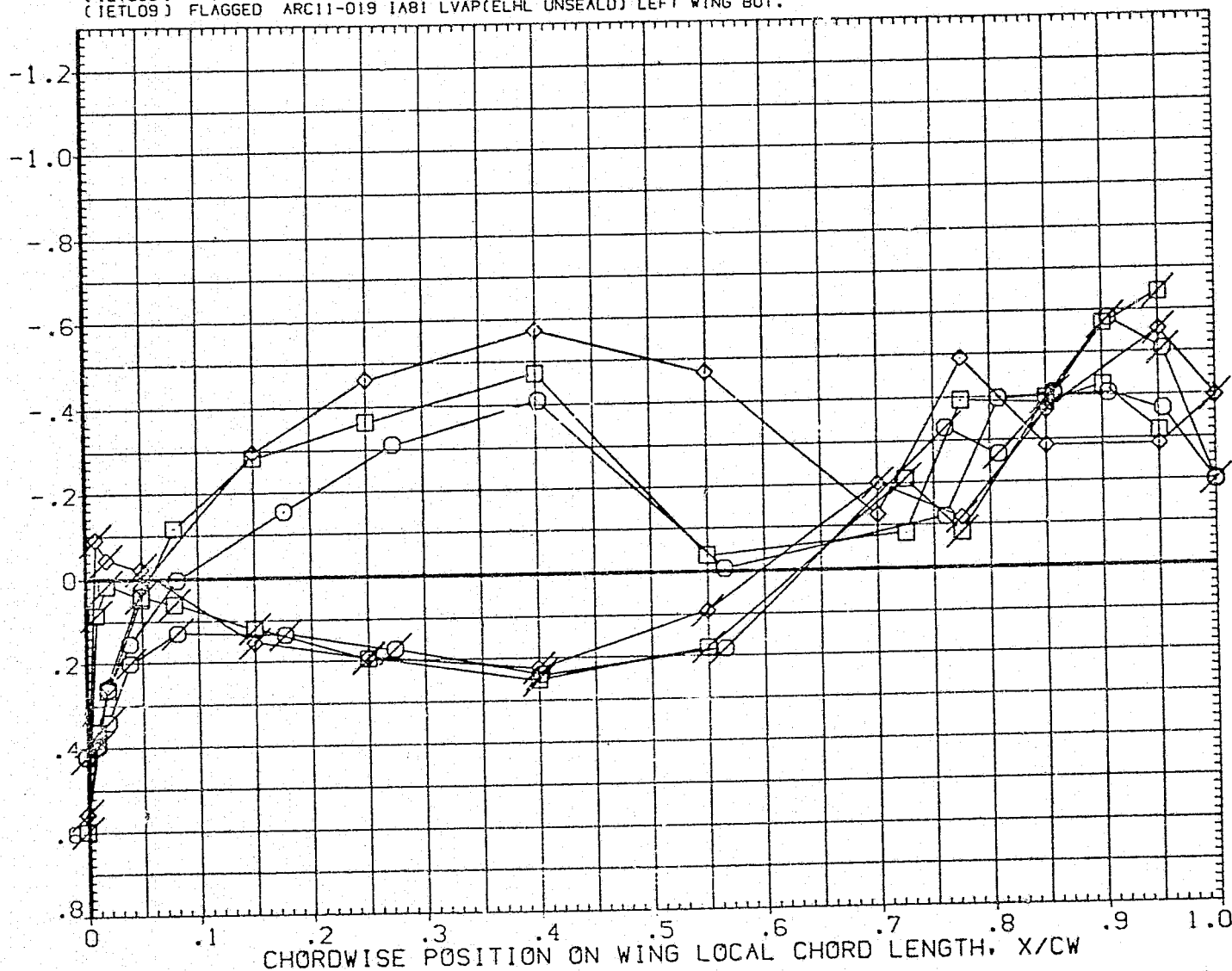


FIG. 74 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

SYMBOL	Y/BW	BETA0	ALPHA0
○	.780	.000	.000
□	.887		
◇	.972		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU09)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETL09)	FLAGGED	ARC11-013 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

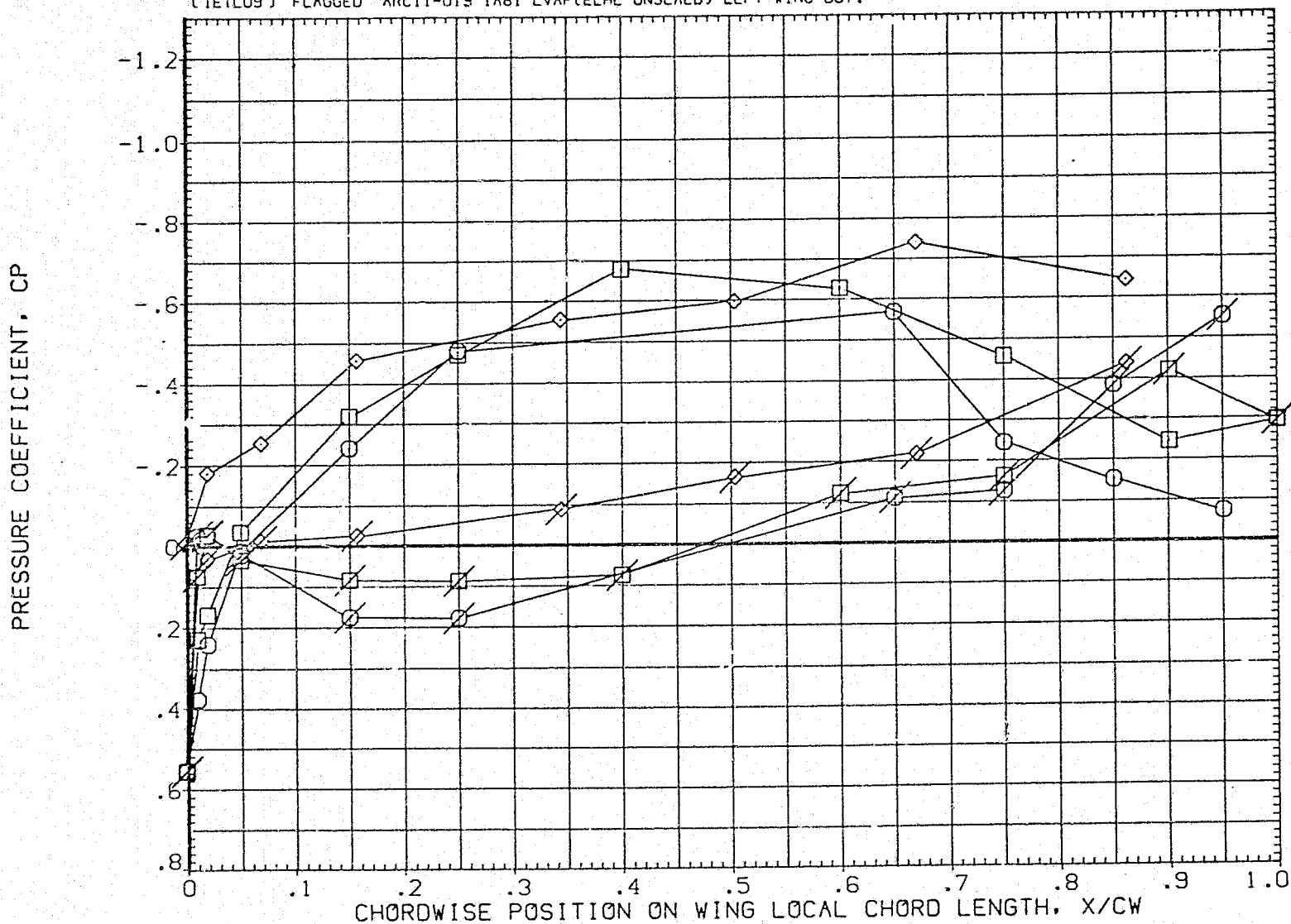


FIG. 74 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

SYMBOL	Y/BW	BETA0	ALPHA0
○	.235	4.000	.000
□	.299		
◇	.364		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(1ETU09)	OPEN	ARC11-019 TAB1 LVAP(ELHL UNSEALD) LEFT WING TOP
(1ETL09)	FLAGGED	ARC11-019 TAB1 LVAP(ELHL UNSEALD) LEFT WING BOT.

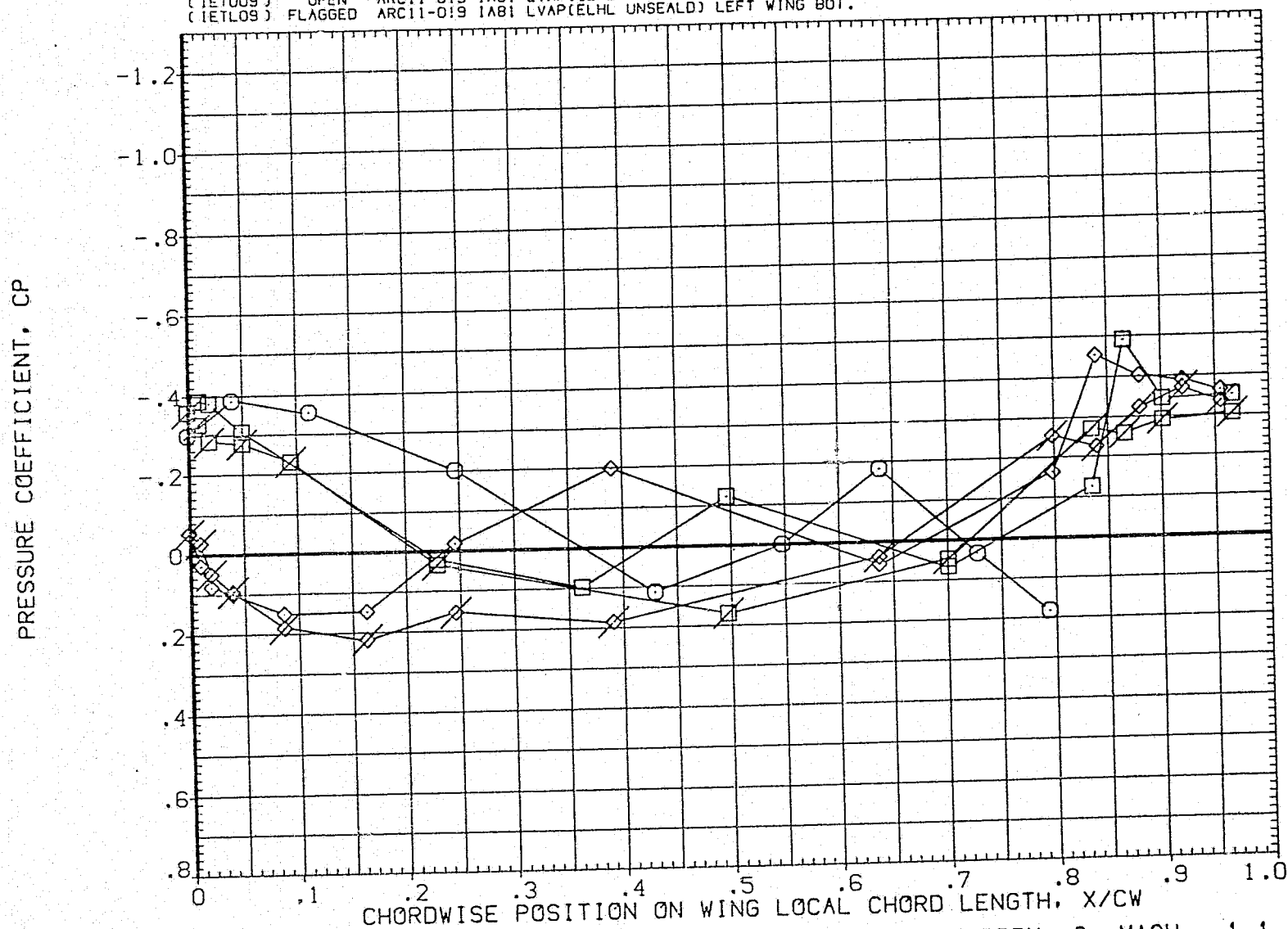


FIG. 74 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1
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SYMBOL	Y/BW	BETA0	ALPHA0
◇	.427	4.000	.000
○	.534		
□	.673		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPOBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(1ETU09)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(1ETL09)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

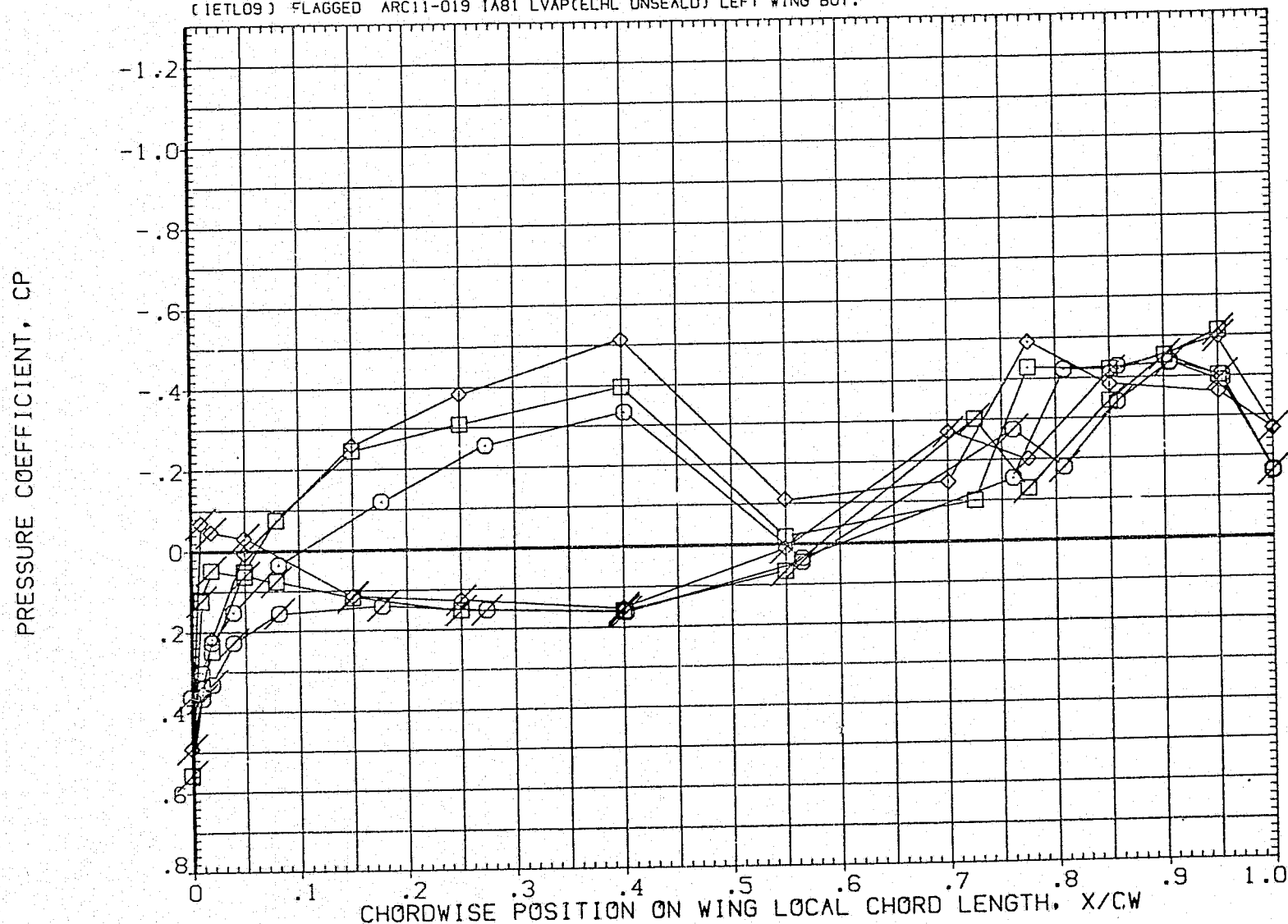


FIG. 74 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPOBRK = 0, MACH = 1.1

SYMBOL	Y/BW	BETA0	ALPHA0
○	.780	4.000	.000
□	.887		
◇	.972		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU09)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETL09)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

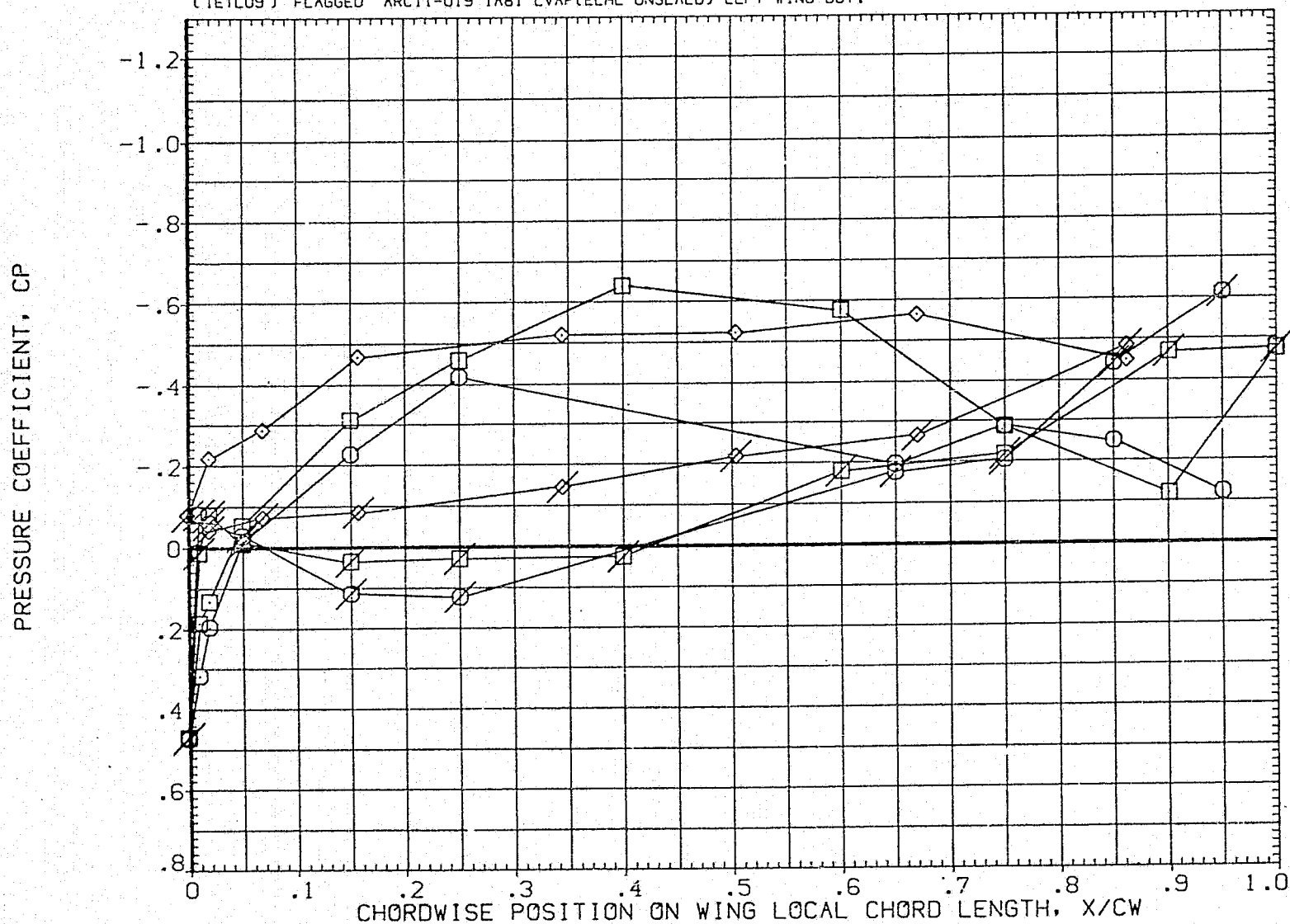


FIG. 74 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

SYMBOL	Y/BW	BETA0	ALPHA0
◇	.235	-4.000	4.000
□	.299		
○	.364		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(1ETU09)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(1ETL09)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

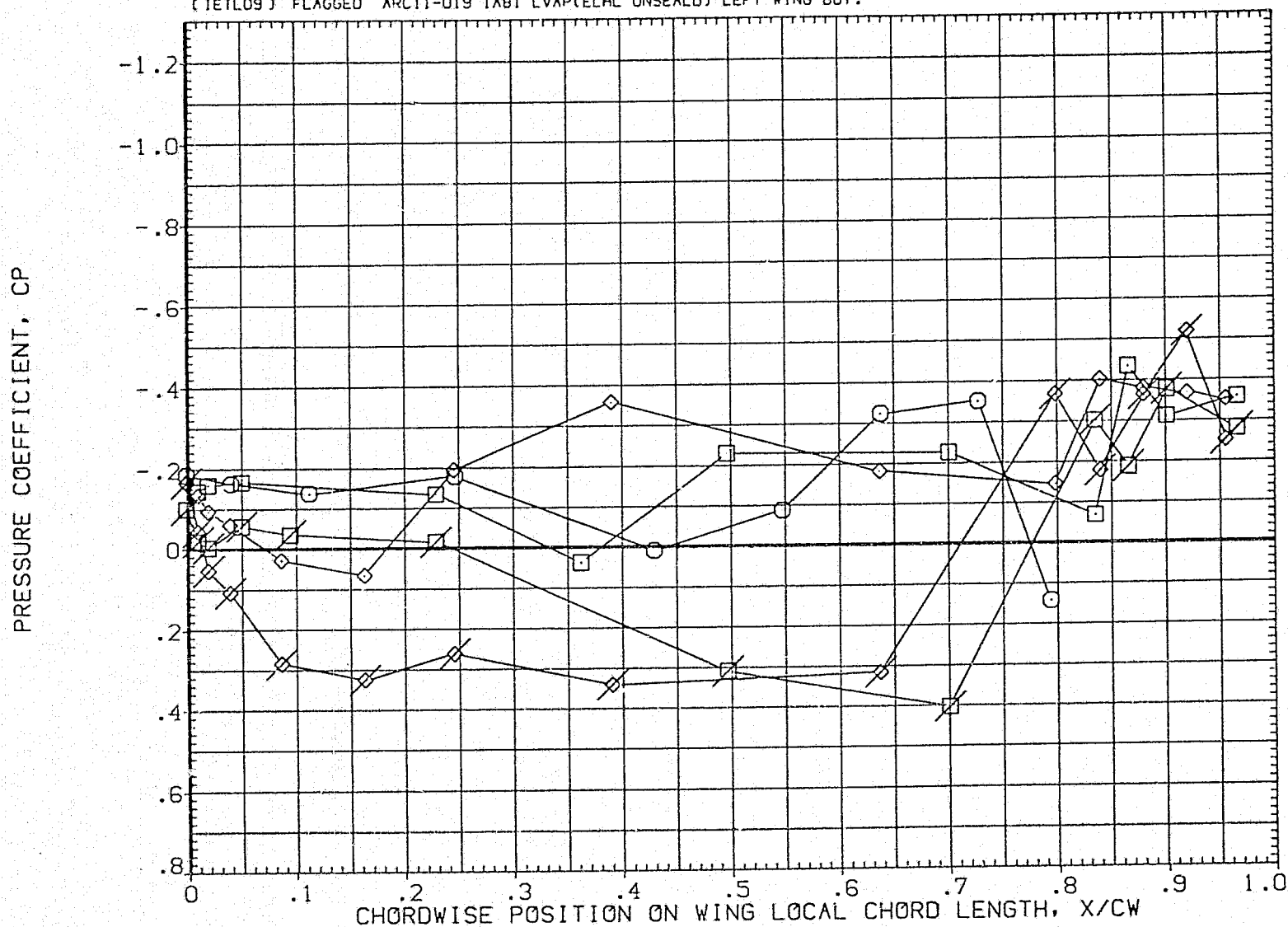


FIG. 74 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

SYMBOL	Y/BW	BETA0	ALPHA0
○	.427	-4.000	4.000
□	.534		
◇	.673		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU09)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETLO9)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

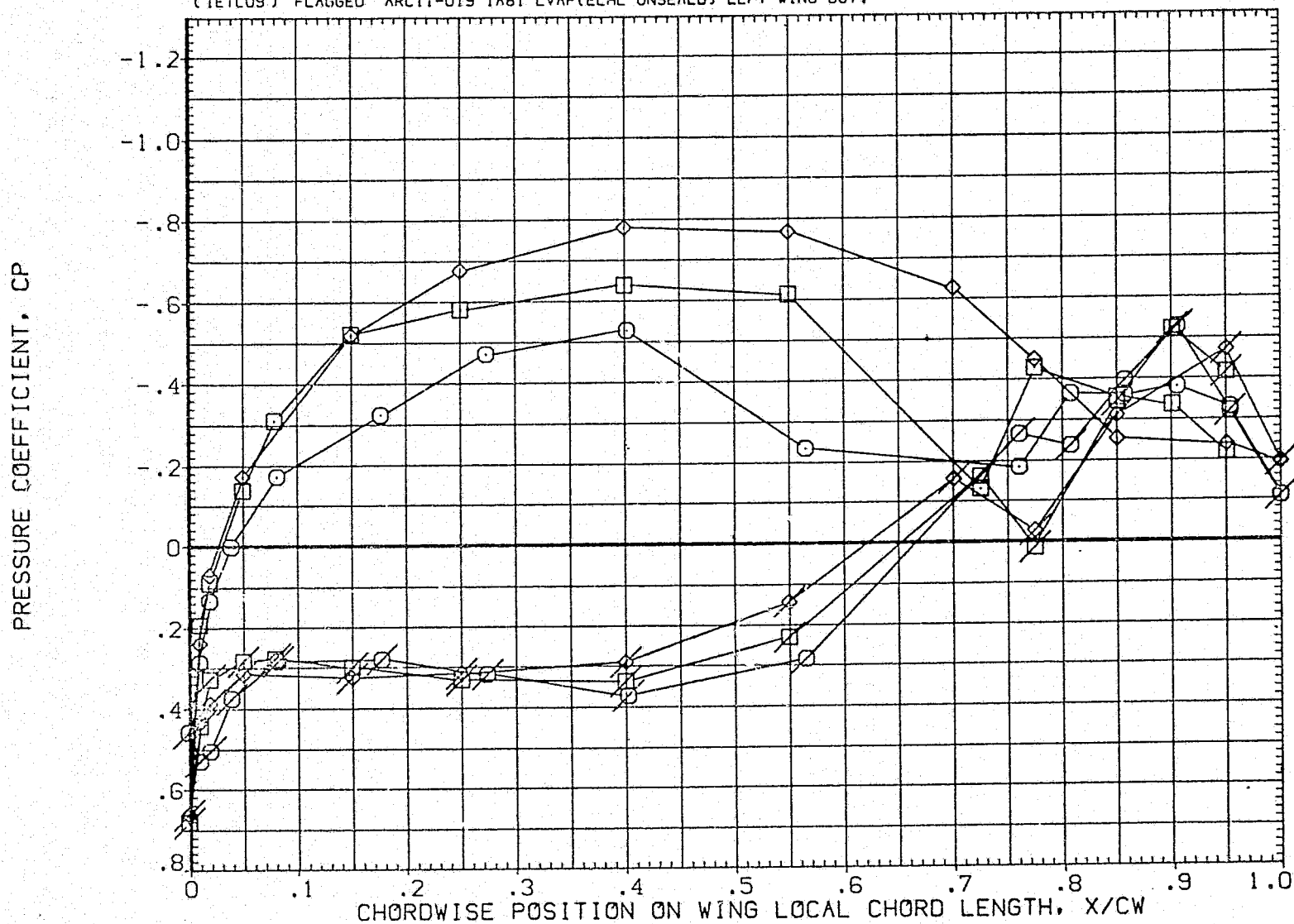


FIG. 74 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

SYMBOL	Y/BW	BETA0	ALPHA0
○	.780	-4.000	4.000
□	.887		
◇	.972		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU09)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETL09)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

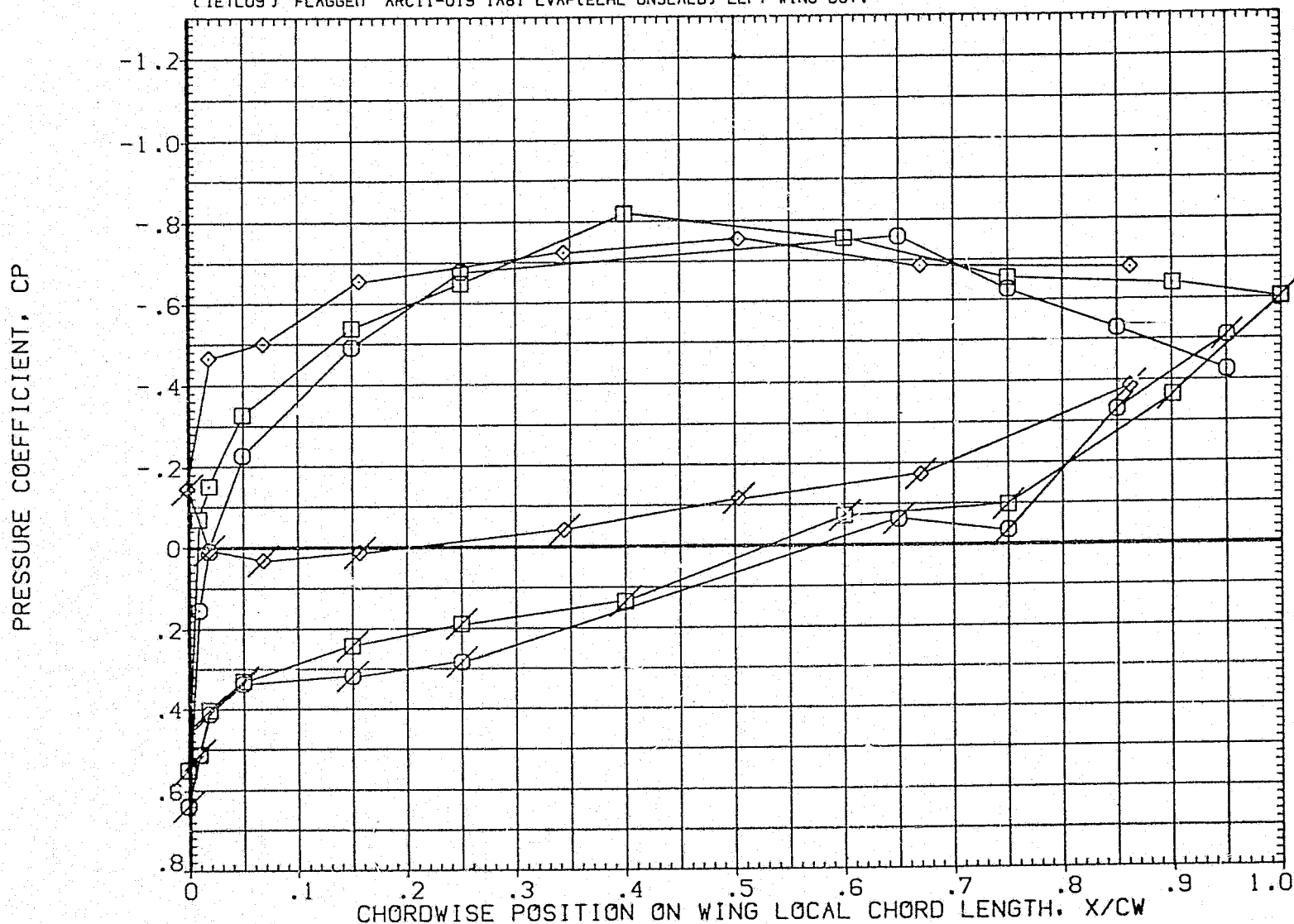


FIG. 74 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

SYMBOL	Y/BW	BETA0	ALPHA0
○	.235	.000	4.000
□	.299		
◇	.364		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETUQ9)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETLO9)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

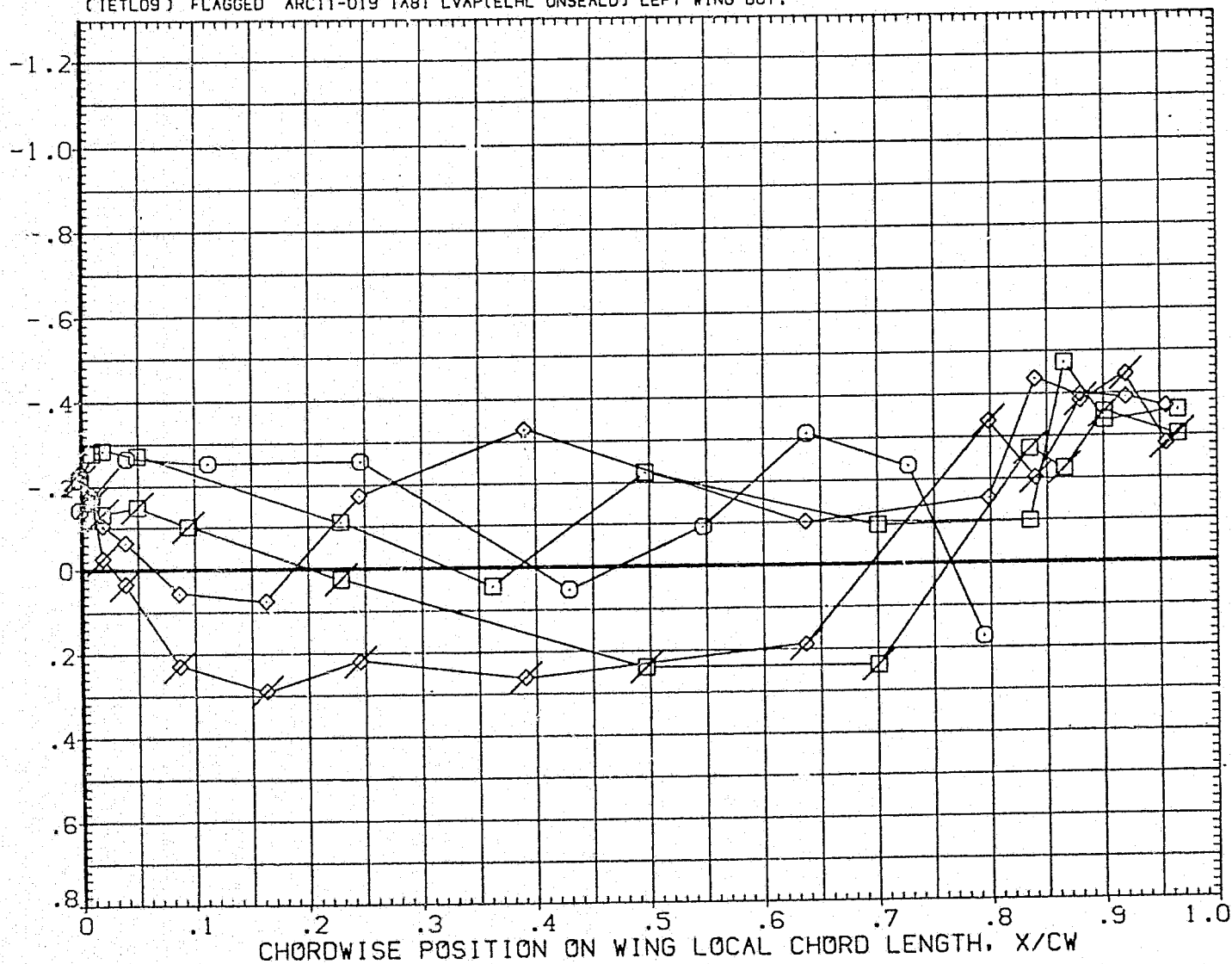


FIG. 74 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

SYMBOL	Y/BW	BETA0	ALPHA0
○	.427	.000	4.000
□	.534		
◇	.673		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU09)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETLO9)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.



FIG. 74 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

SYMBOL	Y/BW	BETA0	ALPHA0
○	.780	.000	4.000
□	.887		
◇	.972		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-IB	8.000	EL V-CB	4.000
RUDDER	.000	*PDBRN	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU09)	OPEN	ARC11-019 IAB1 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETL09)	FLAGGED	ARC11-019 IAB1 LVAP(ELHL UNSEALD) LEFT WING BOT.

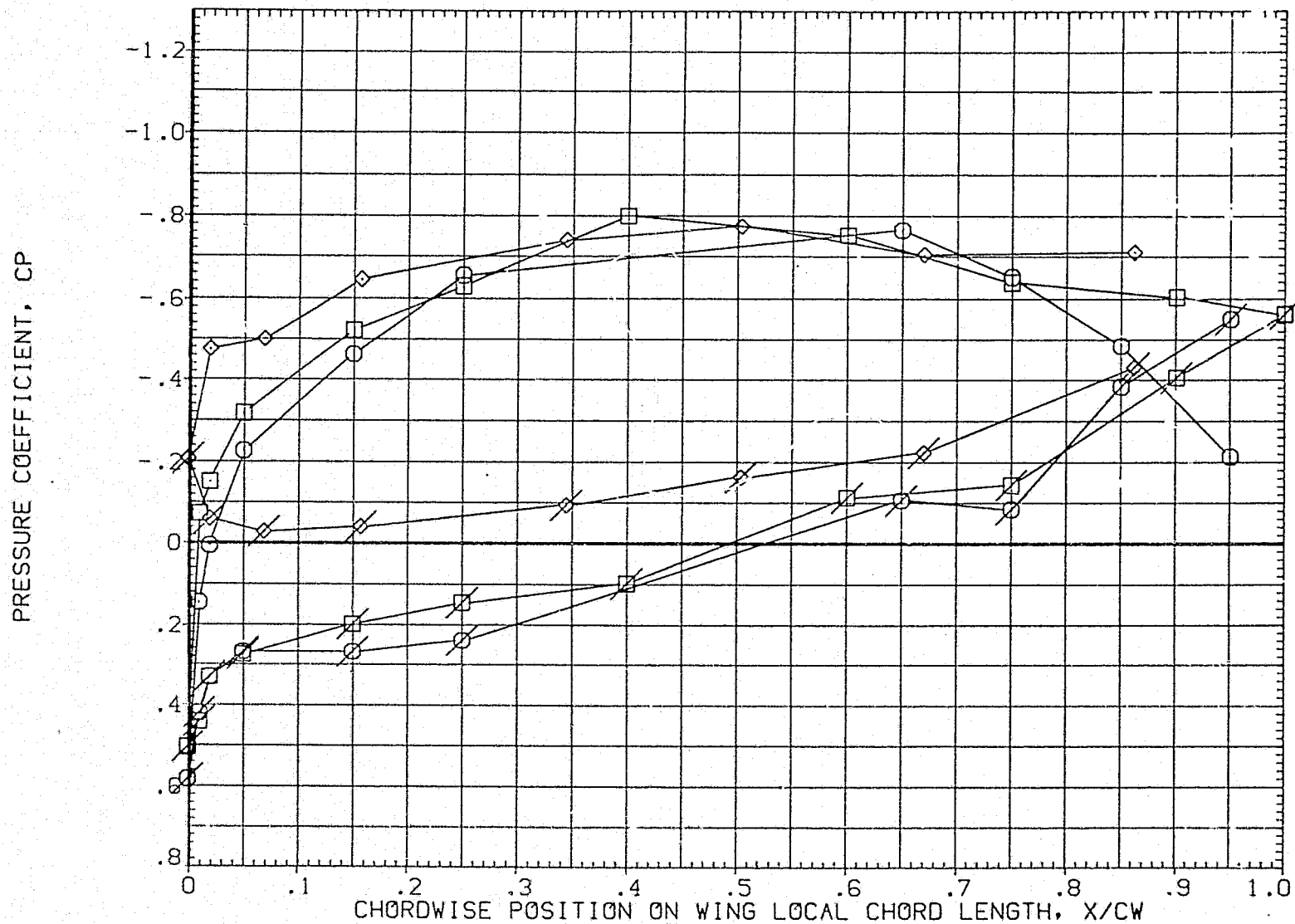


FIG. 74 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

SYMBOL	Y/BW	BETA0	ALPHA0
○	.235	4.000	4.000
□	.299		
◇	.364		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU09)	OPEN	ARC11-019 IAB1 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETL09)	FLAGGED	ARC11-019 IAB1 LVAP(ELHL UNSEALD) LEFT WING BOT.

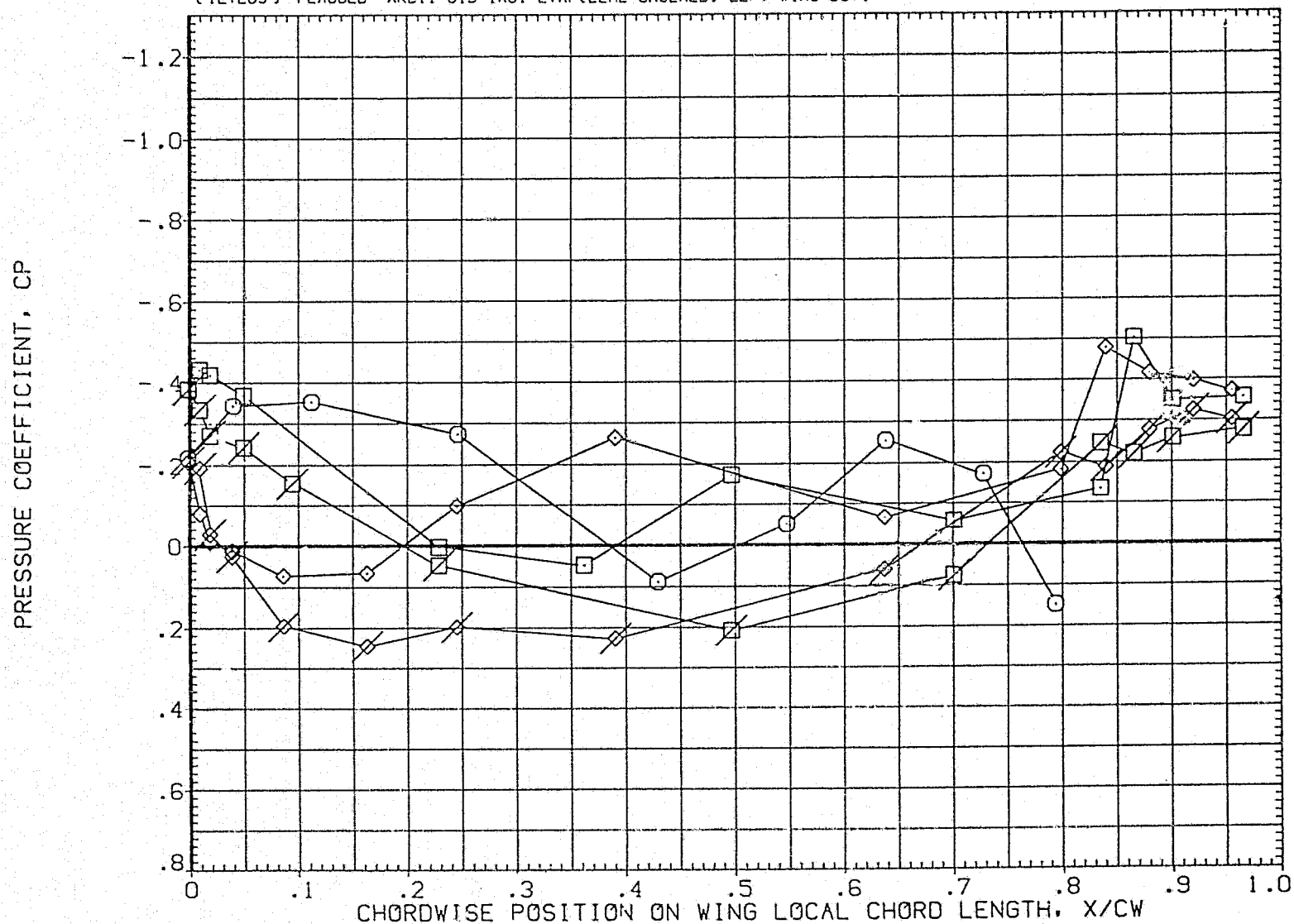


FIG. 74 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

SYMBOL	Y/BW	BETA0	ALPHA0
○	.427	4.000	4.000
□	.534		
◇	.673		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU09)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETL09)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

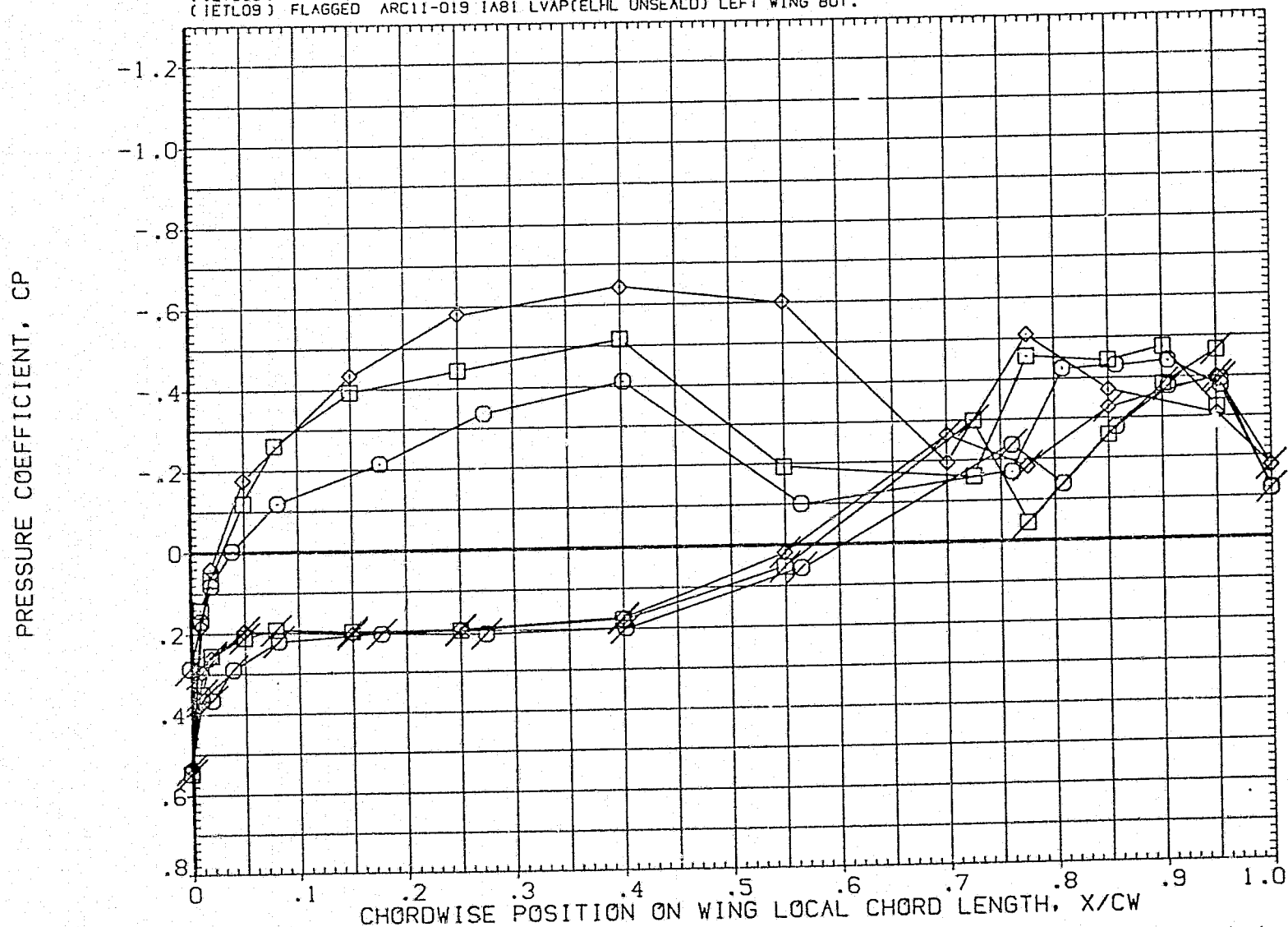


FIG. 74 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

SYMBOL	Y/BW	BETA0	ALPHA0
○	.780	4.000	4.000
□	.887		
◇	.972		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU09)	OPEN	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP
(IETL09)	FLAGGED	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.

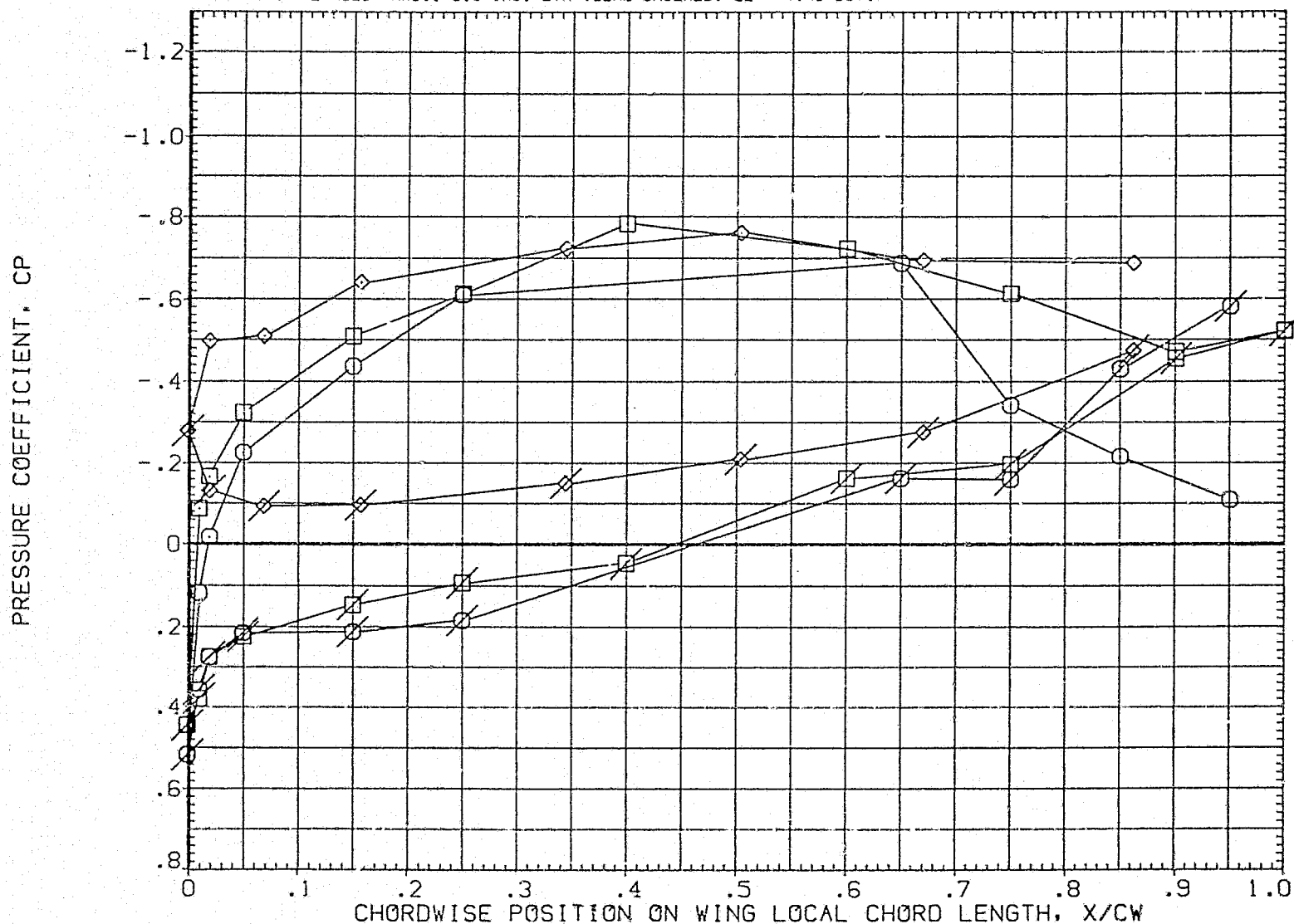


FIG. 74 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.1

SYMBOL Y/BW BETA0 ALPHA0
 ○ .235
 □ .299
 ◇ .364

PARAMETRIC VALUES
 MACH 1.250 RN/FT 2.250
 ELV-15 8.000 ELV-08 4.000
 RUDDER .000 SPDBRK .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (1ETU11) OPEN ARC11-019 (A81 LVAP(ELHL SEALED) LEFT WING TOP
 (1ETL11) FLAGGED ARC11-019 (A81 LVAP(ELHL SEALED) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

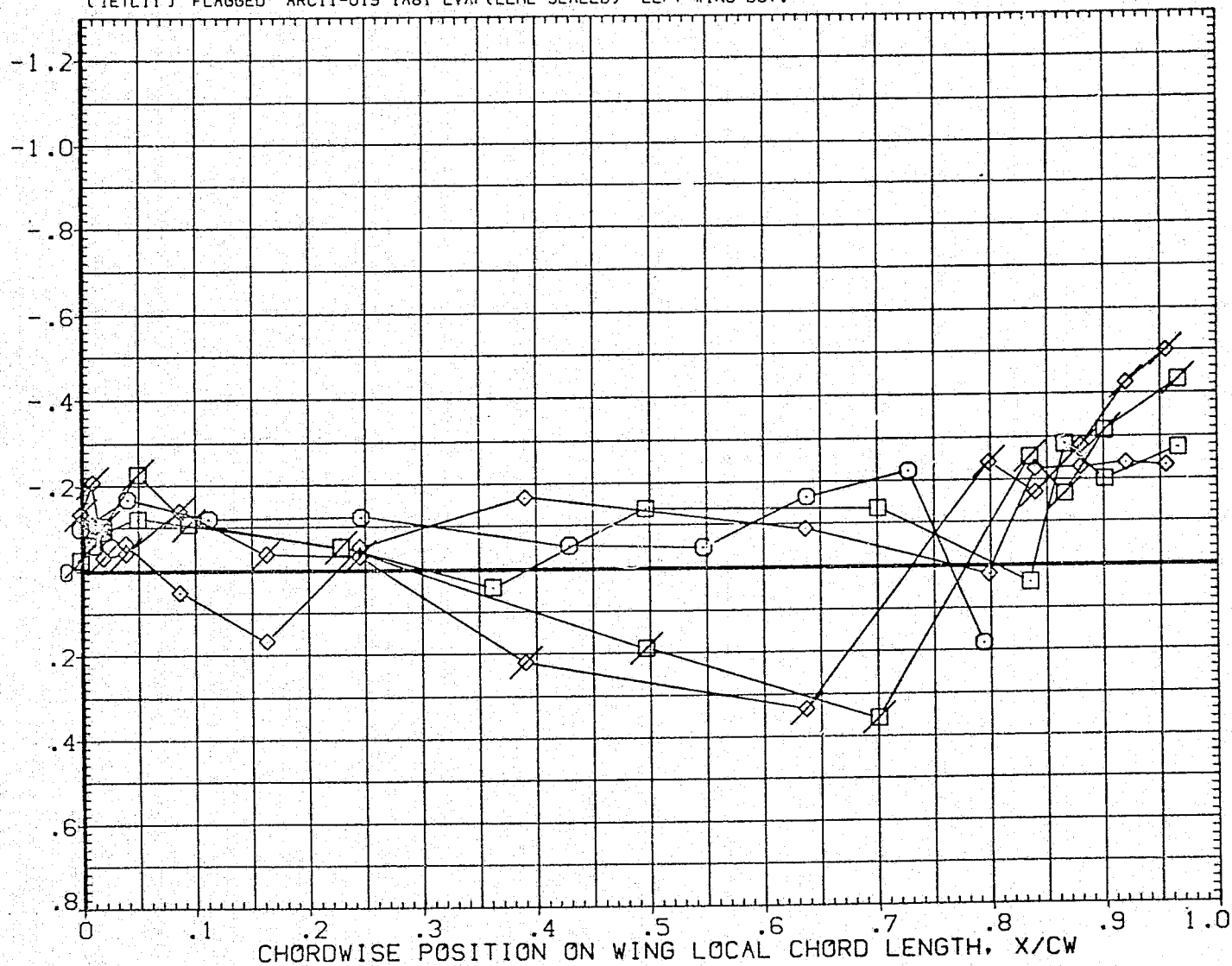


FIG. 75 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

SYMBOL	Y/BW	BETA0	ALPHAC
○	.427	-4.000	-4.000
□	.534		
◇	.673		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(1ETU11)	OPEN	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP
(1ETL11)	FLAGGED	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

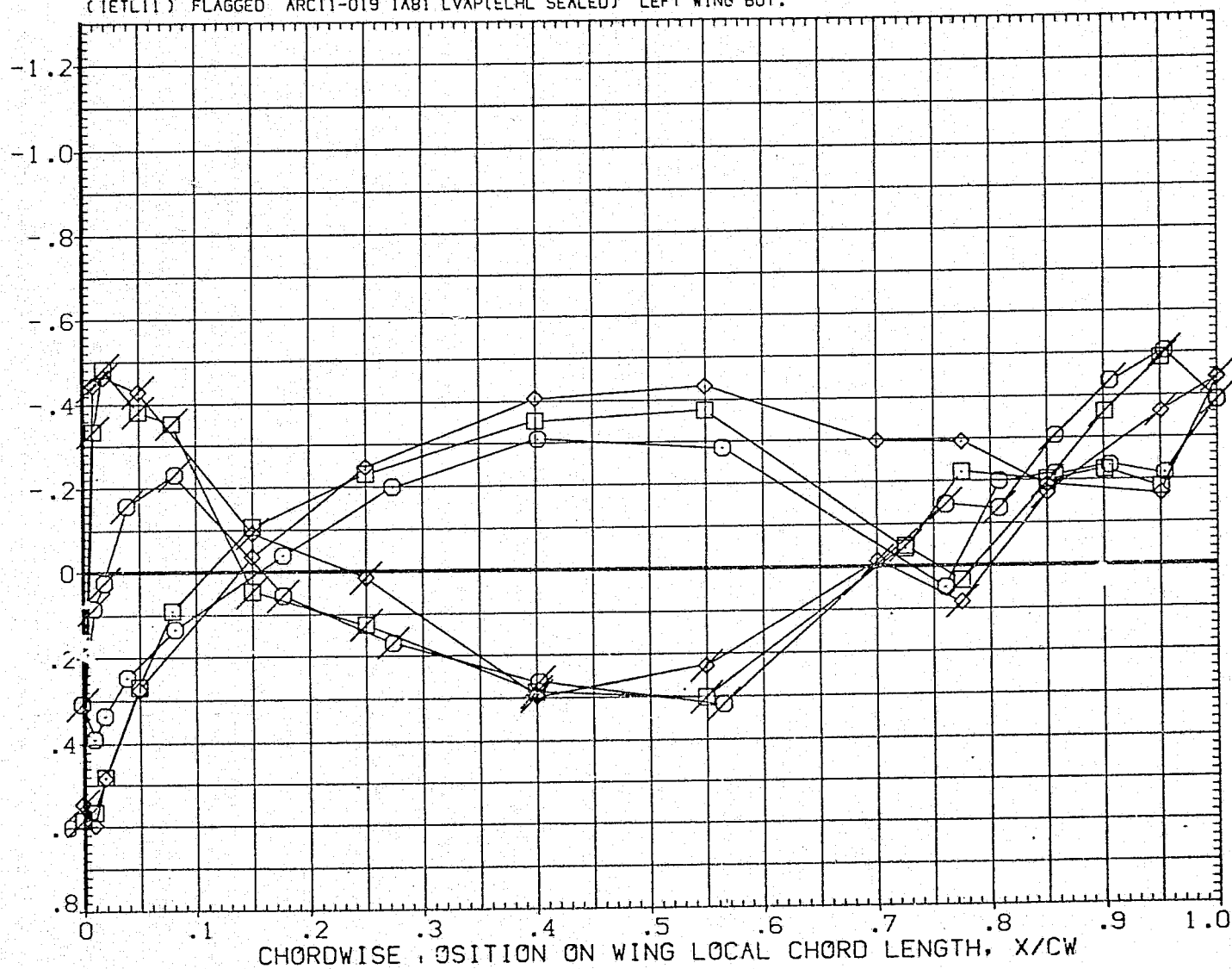


FIG. 75 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

SYMBOL	Y/BW	BETA0	/LPHAO
○	.780	-4.000	-4.000
□	.887		
◇	.972		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU11)	OPEN	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP
(IETL11)	FLAGGED	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

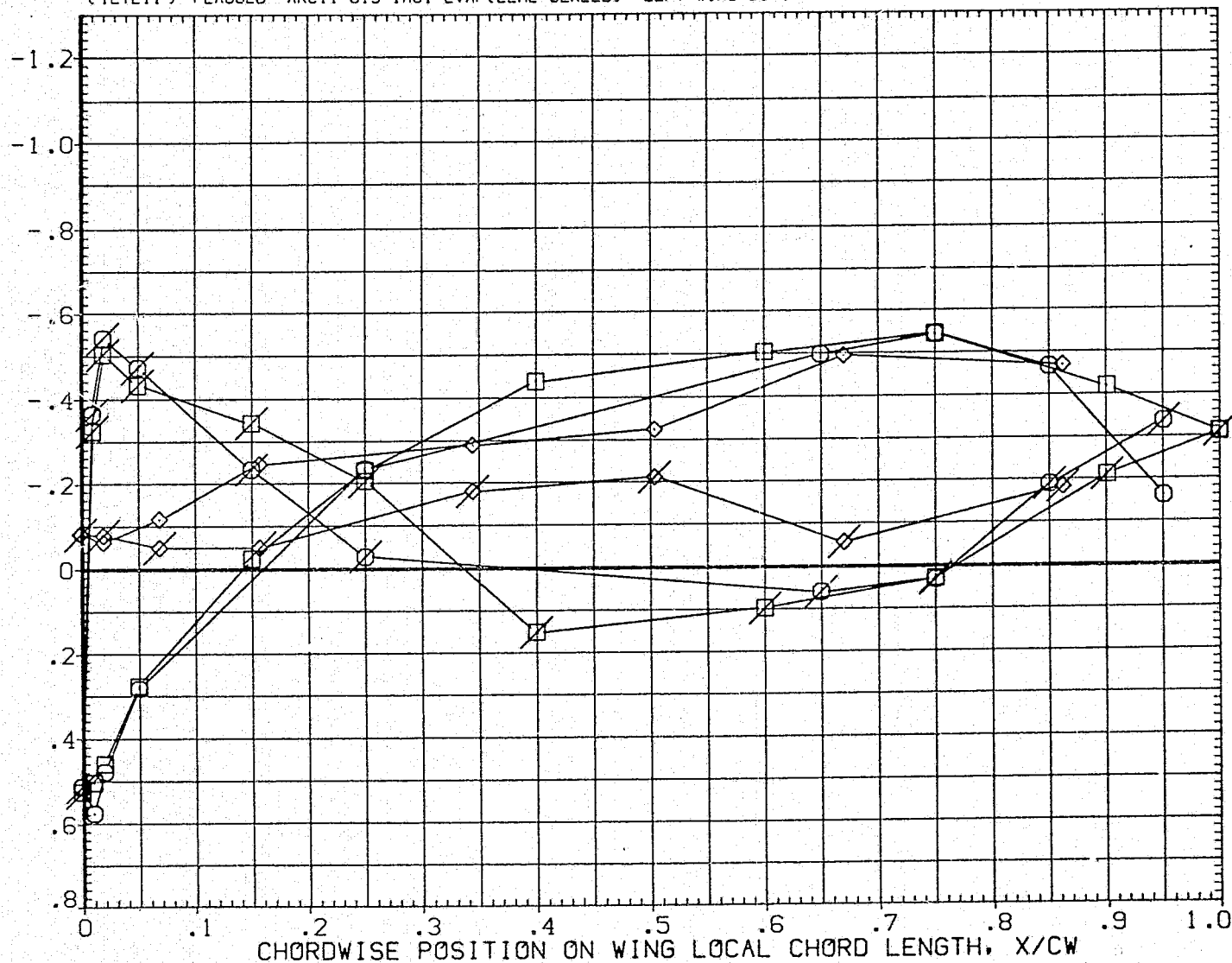


FIG. 75 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

SYMBOL	Y/BW	BETA0	ALPHA0
○	.235	.000	4.000
□	.299		
◇	.364		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU11)	OPEN	ARC11-019 1A81 LVAP(LHL SEALED) LEFT WING TOP
(IETL11)	FLAGGED	ARC11-019 1A81 LVAP(LHL SEALED) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

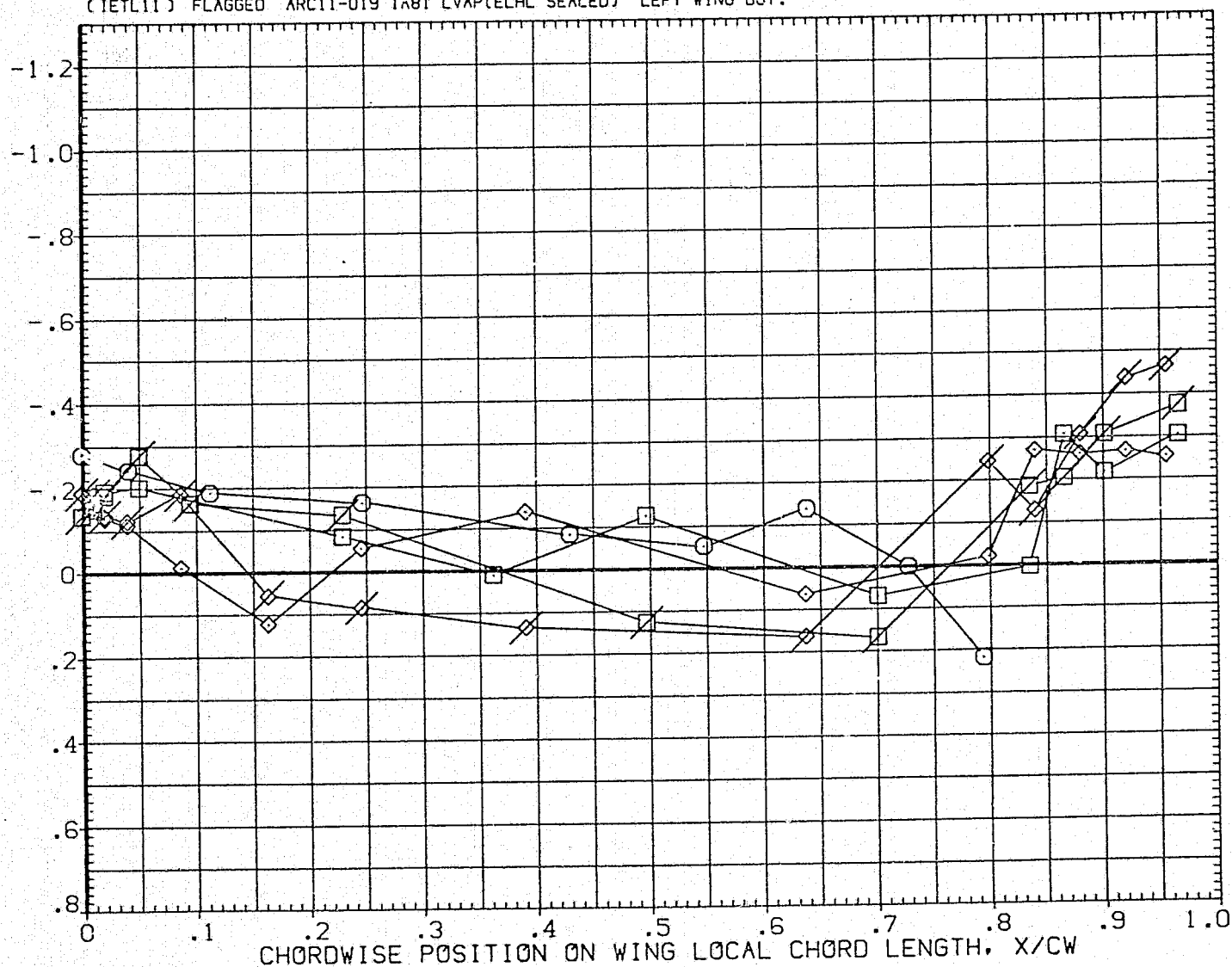


FIG. 75 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

SYMBOL	Y/BW	BETA0	ALPHA0
○	.427	.000	-4.000
□	.534		
◇	.673		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU11)	OPEN	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP
(IETL11)	FLAGGED	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

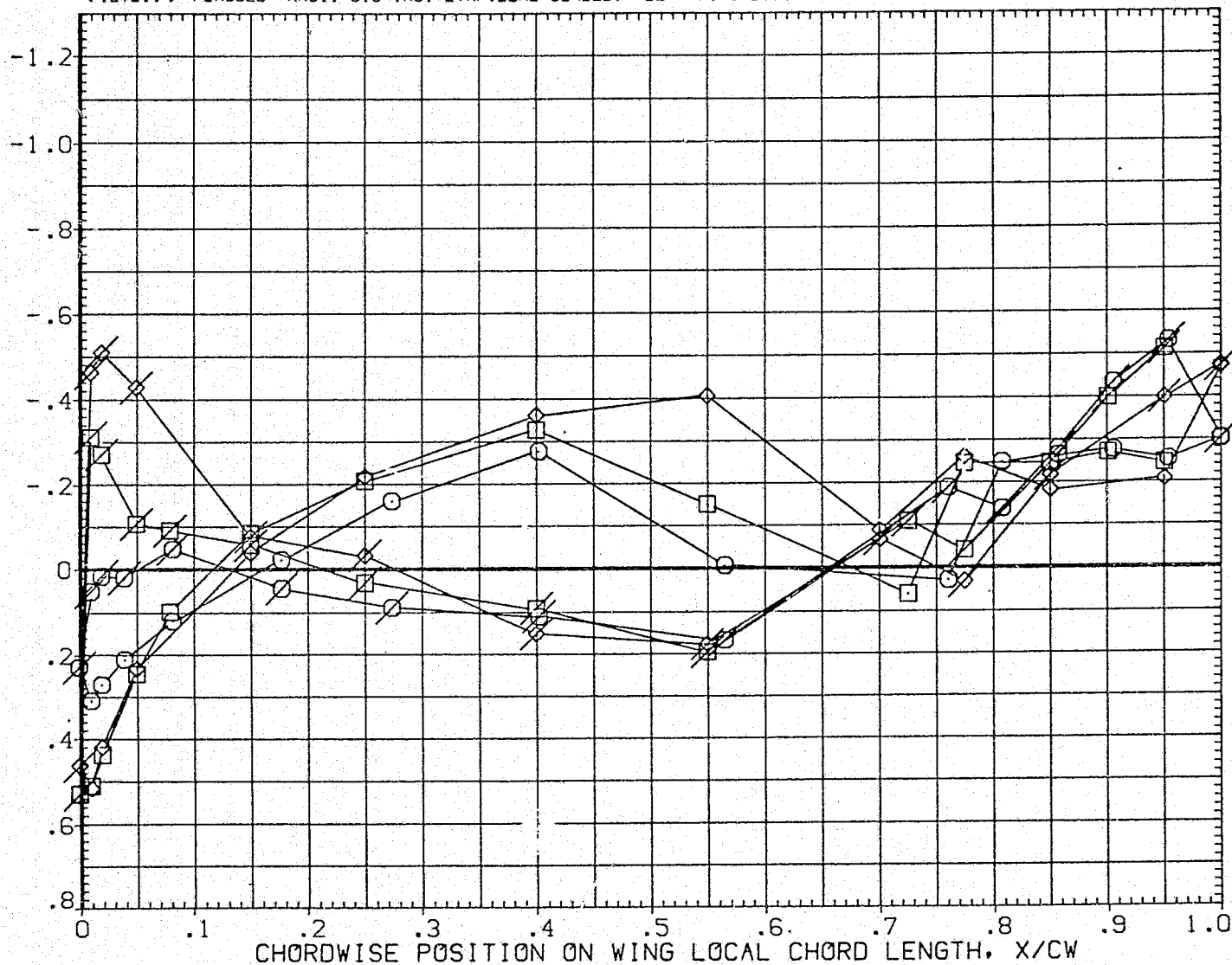


FIG. 75 WING CHORDWISE PRESS. DIST., ELEVON 1/0 = .8/4, SPDBRK = 0, MACH = 1.25

SYMBOL	Y/BW	BETA0	ALPHA0
○	.780	.000	-4.000
□	.887		
◇	.972		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(1ETU11)	OPEN	ARC11-019 1A81 LVAF(ELHL SEALED) LEFT WING TOP
(1ETL11)	FLAGGED	ARC11-019 1A81 LVAF(ELHL SEALED) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

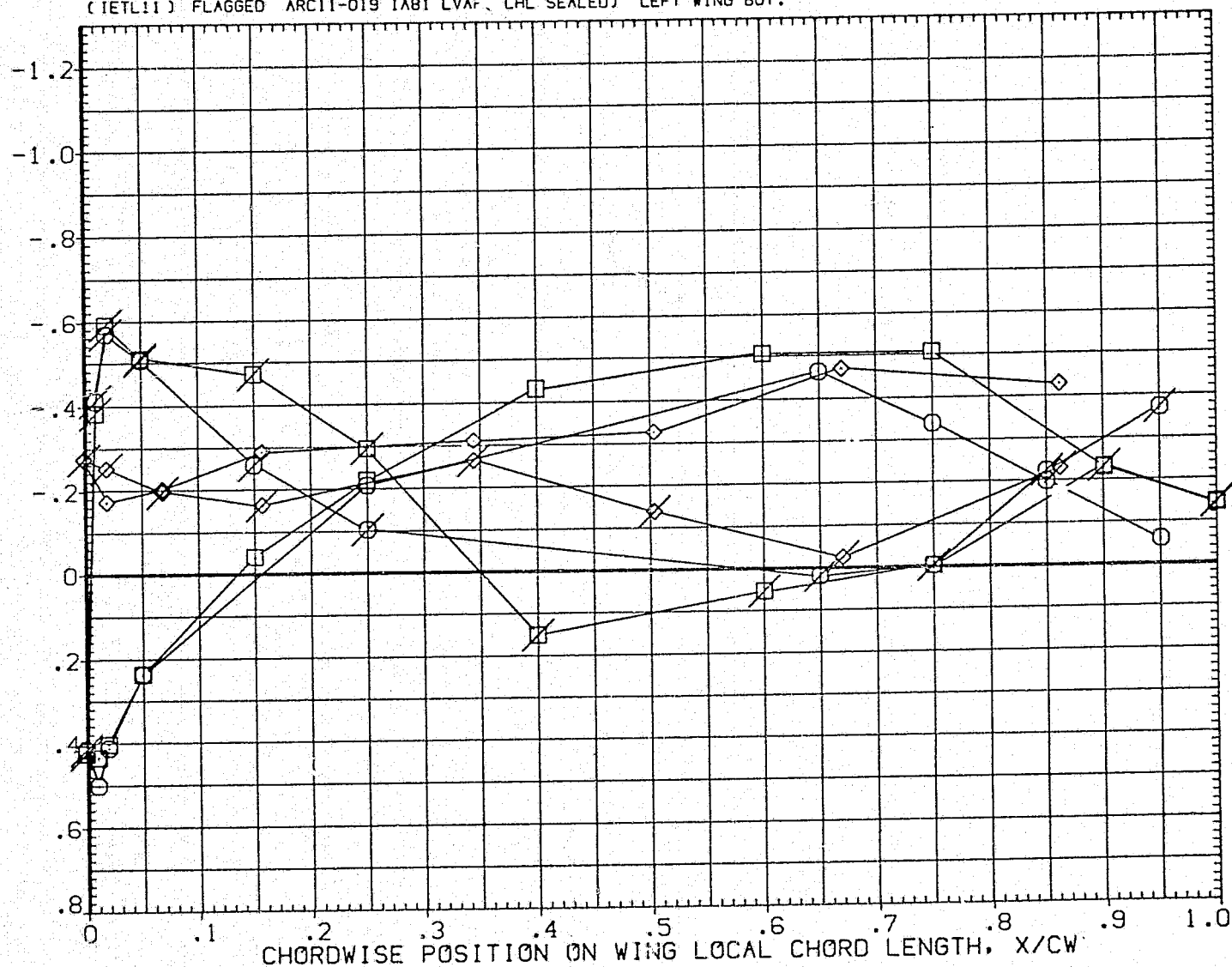


FIG. 75 WING CHORDWISE PRESS. DIST., ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 1.25

SYMBOL	Y/BW	BETA0	ALPHA0
○	.235	4.000	-4.000
□	.299		
◇	.364		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU11)	OPEN	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP
(IETL11)	FLAGGED	ARC11-019 1A91 LVAP(ELHL SEALED) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

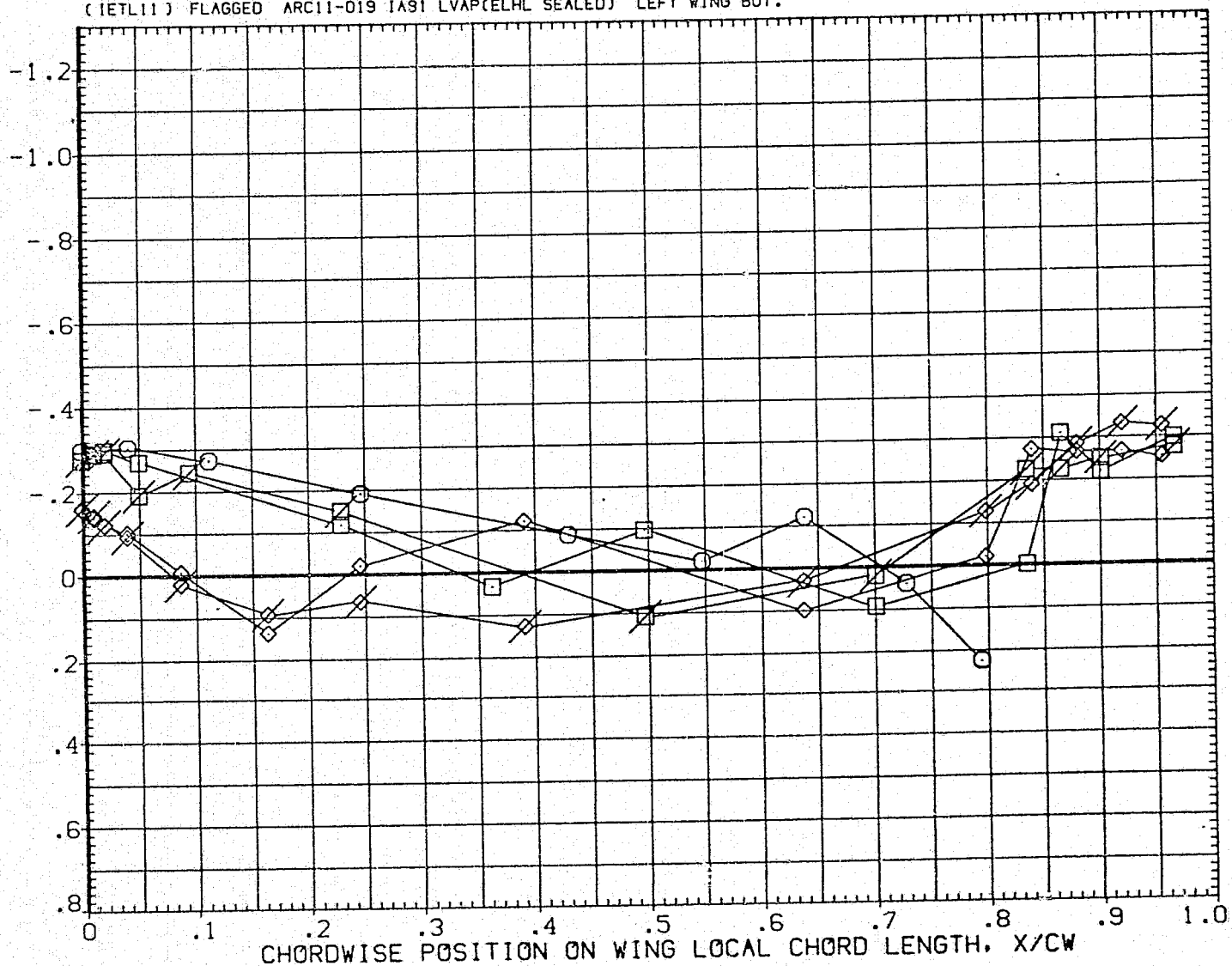


FIG. 75 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

SYMBOL	Y/RW	BETA0	ALPHA0
○	.427	4.000	-4.000
□	.534		
◇	.673		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU11)	OPEN	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING TOP
(IETL11)	FLAGGED	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

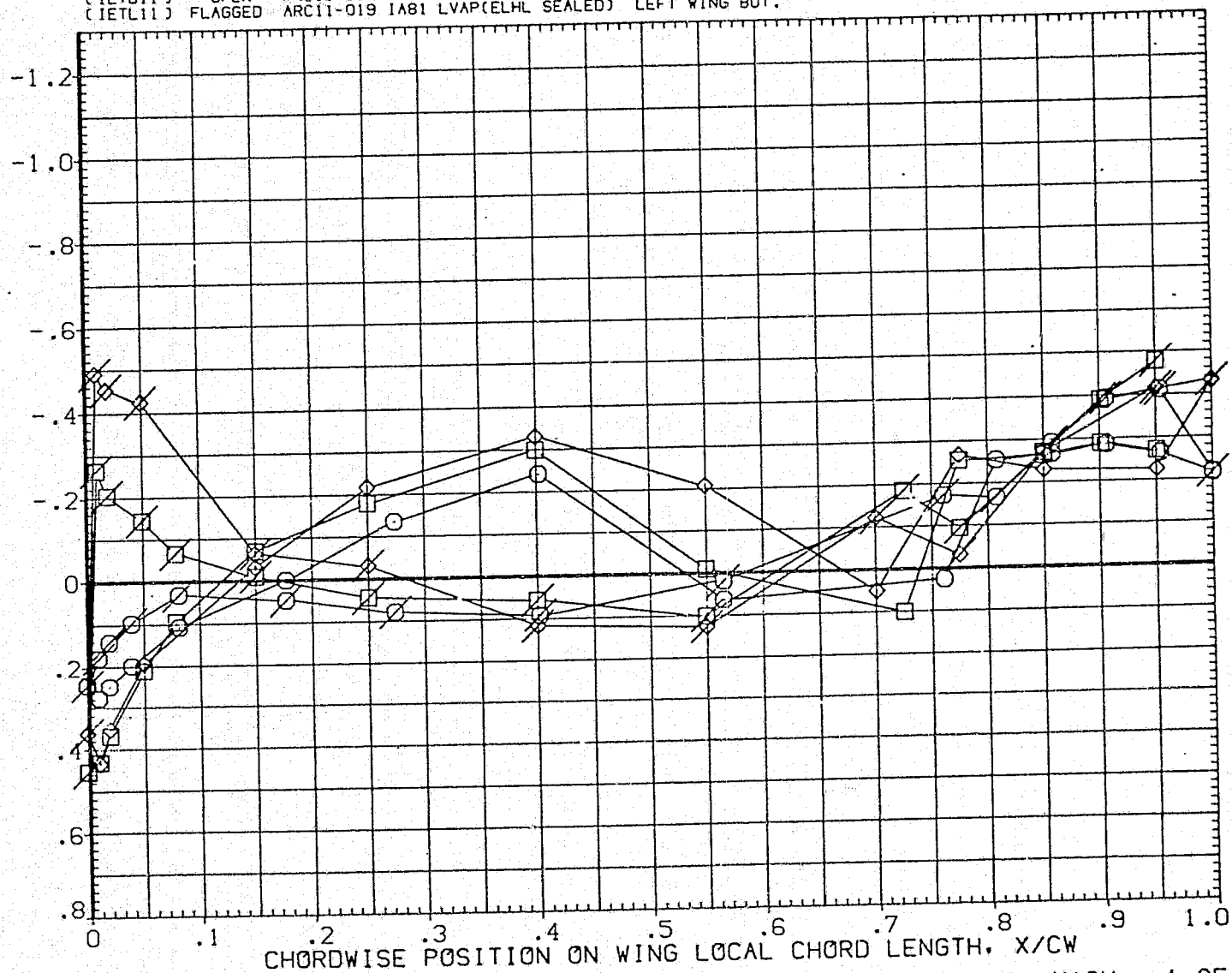


FIG. 75 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

SYMBOL	Y/BW	BETA0	ALPHA0
○	.780	4.000	-4.000
□	.887		
◇	.972		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU11)	OPEN	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP
(IETL11)	FLAGGED	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

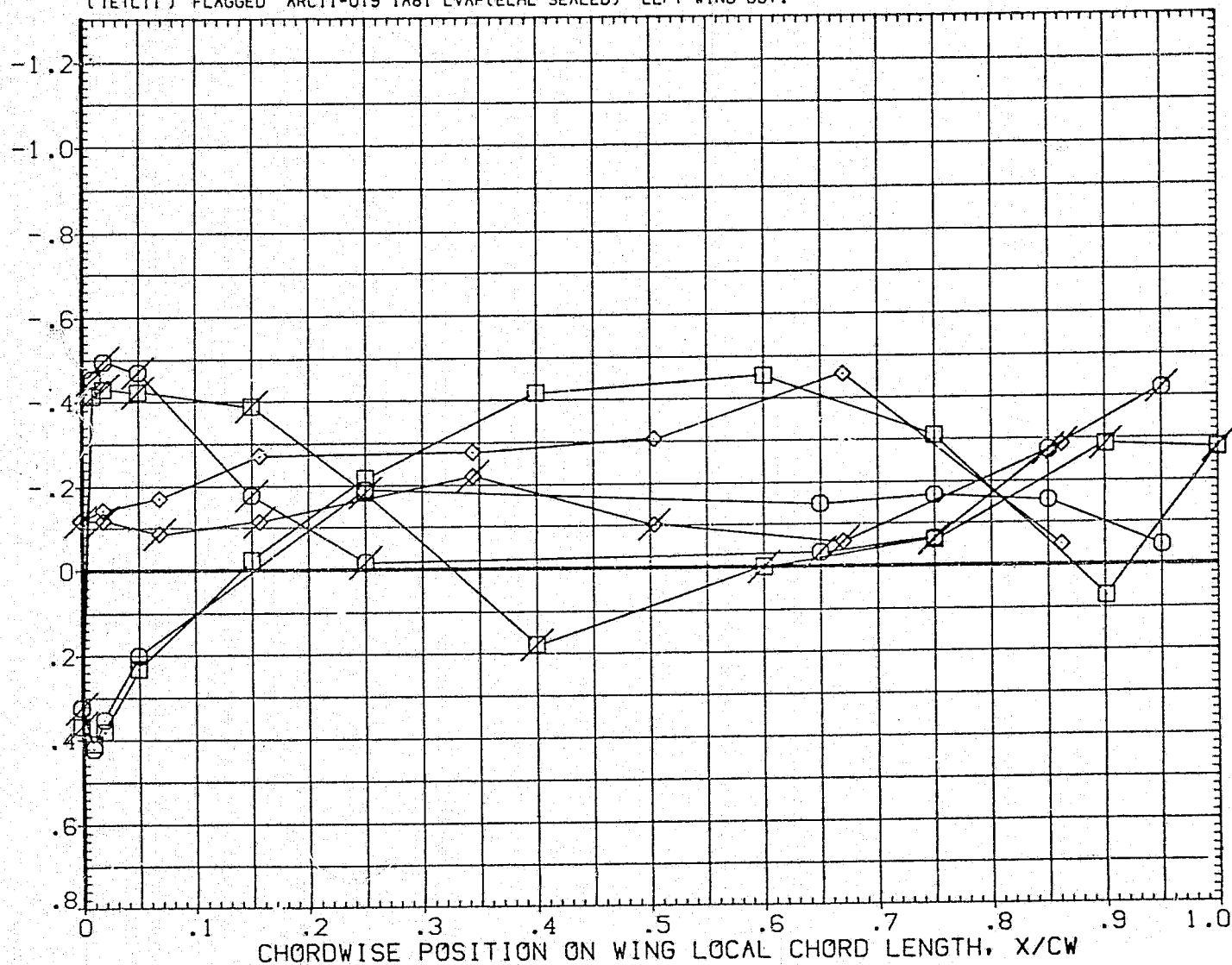


FIG. 75 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

SYMBOL	Y/BW	BETA0	ALPHA0
○	.235	-4.000	.000
□	.299		
◇	.364		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU11)	OPEN	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING TOP
(IETL11)	FLAGGED	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

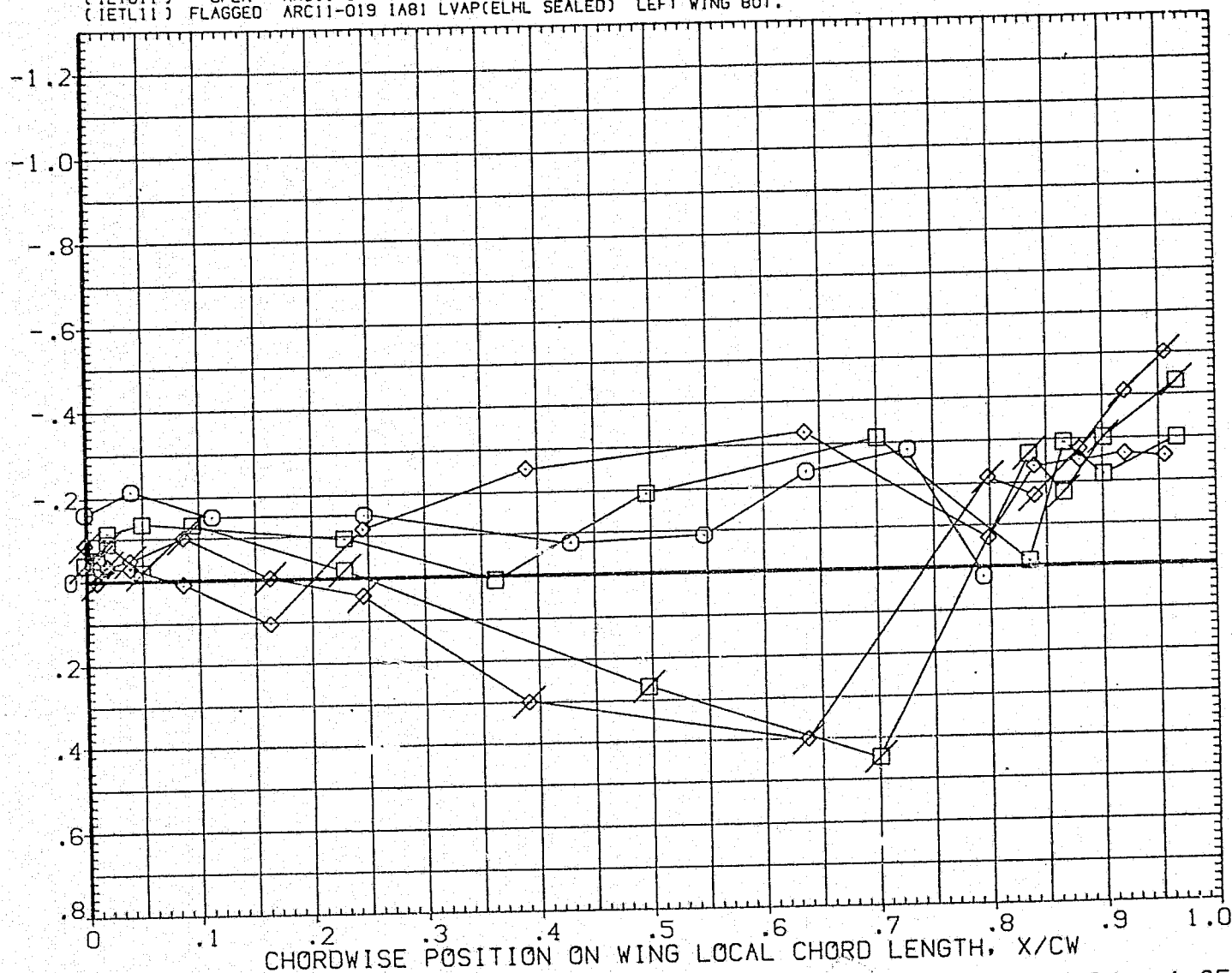


FIG. 75 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

SYMBOL	Y/BW	BETA0	ALPHA0
○	.427	-4.000	.000
□	.534		
◇	.673		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU11)	OPEN	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP
(IETL11)	FLAGGED	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

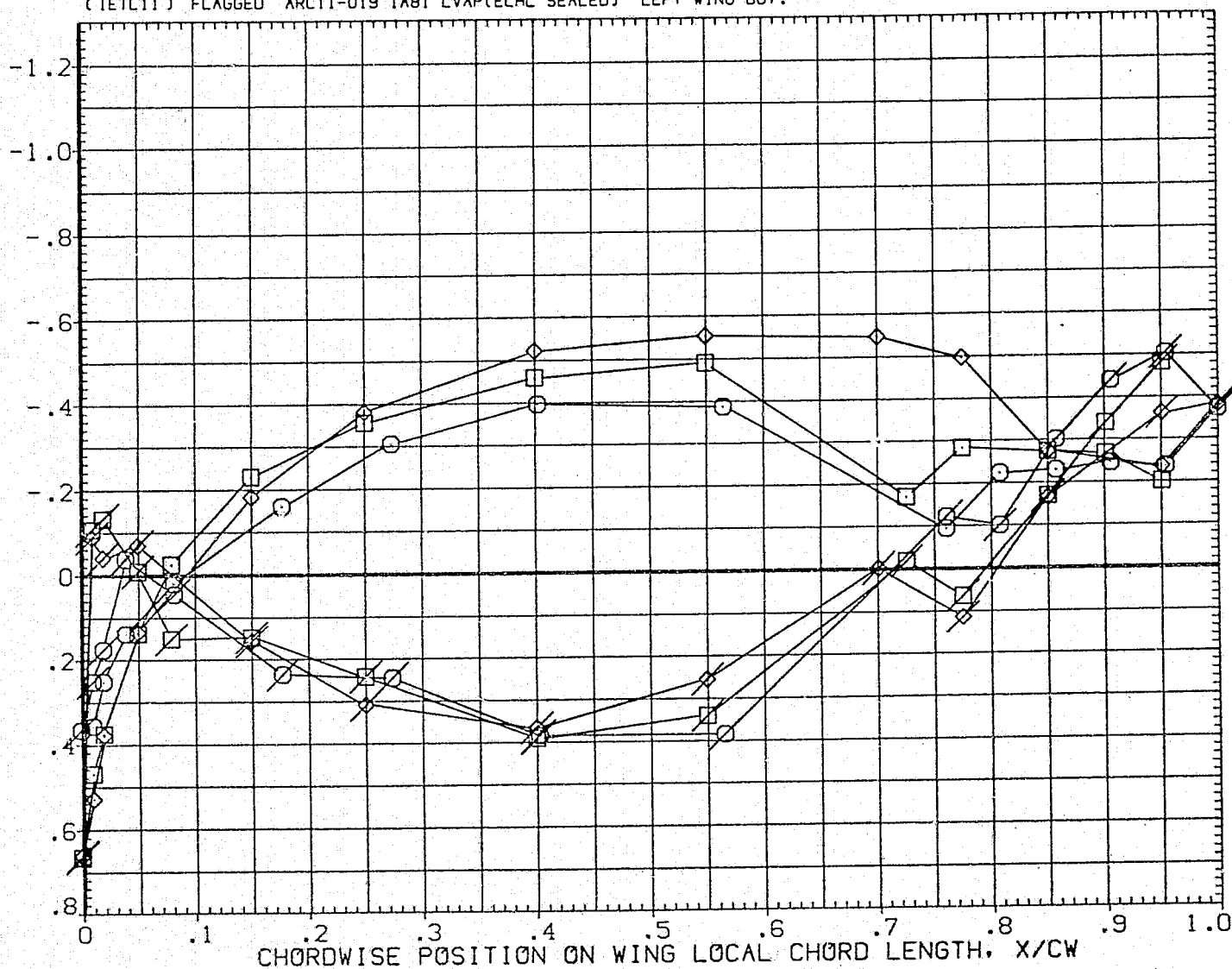


FIG. 75 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

SYMBOL	Y/BW	BETA0	ALPHA0
○	.780	-4.000	.000
□	.887		
◇	.972		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(1ETU11)	OPEN	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING TOP
(1ETL11)	FLAGGED	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING BOT.

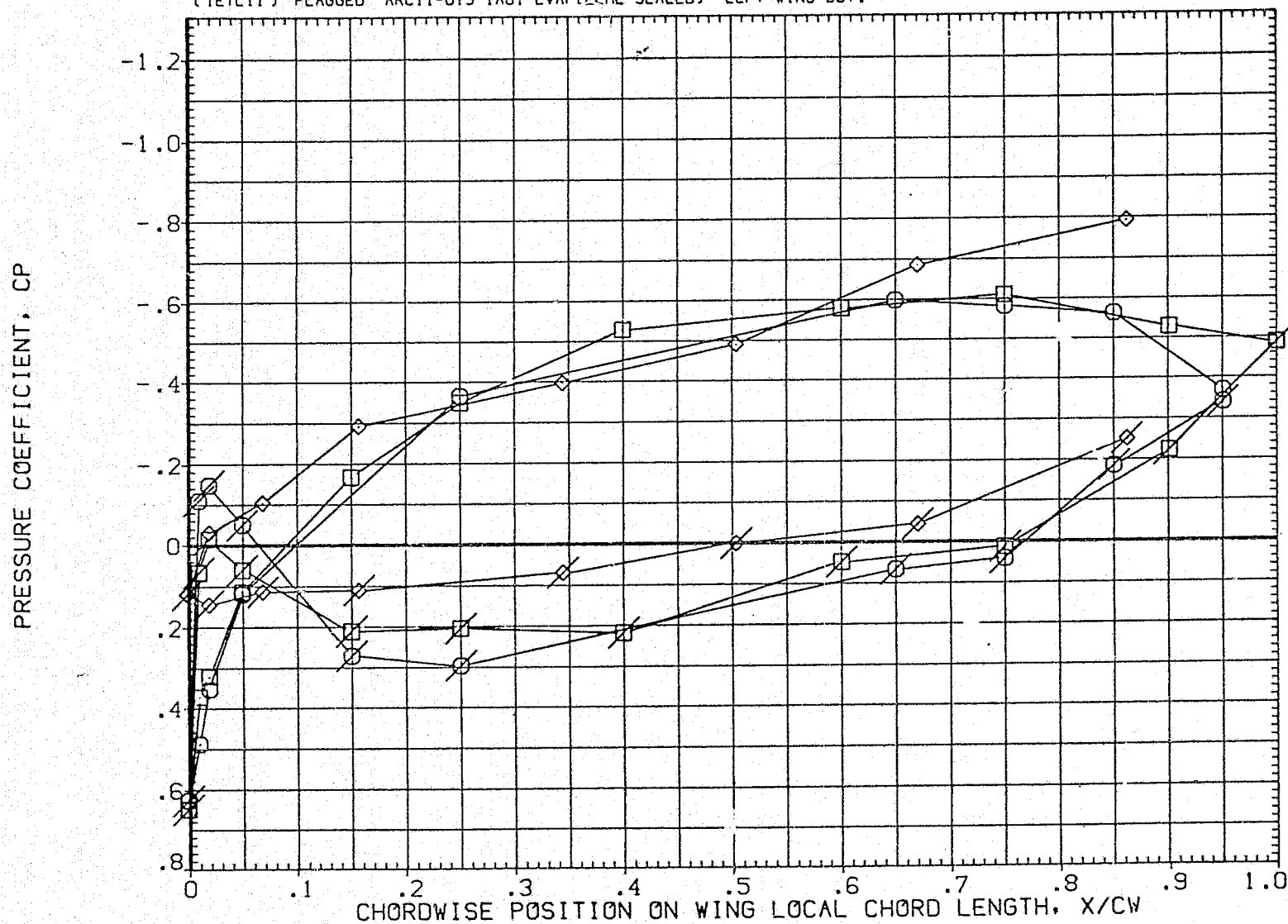


FIG. 75 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

SYMBOL	Y/BW	BETA0	ALPHA0
○	.235	.000	.000
□	.299		
◇	.364		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU11)	OPEN	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING TOP
(IETL11)	FLAGGED	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

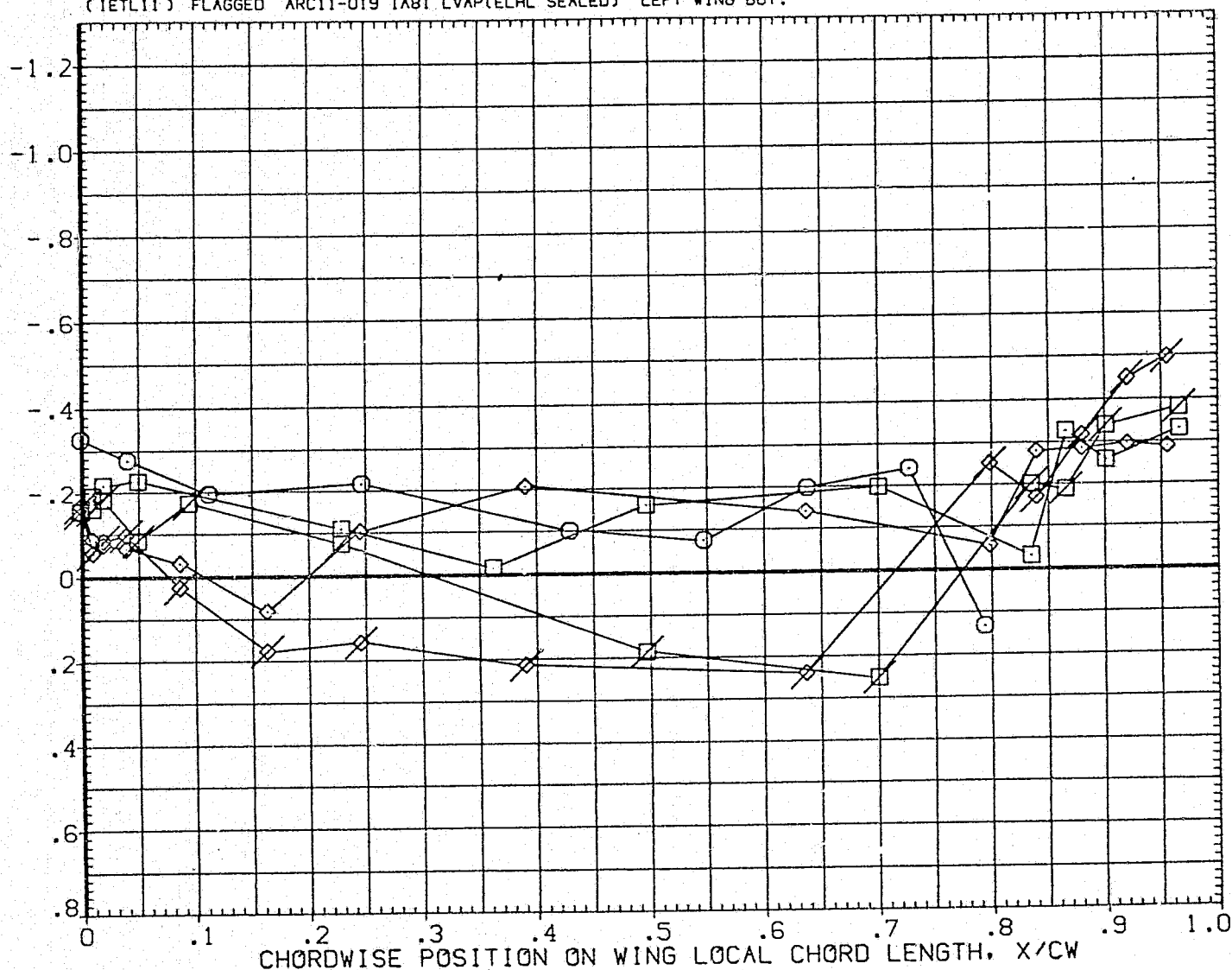


FIG. 75 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

SYMBOL	Y/BW	BETA0	ALPHA0
○	.427	.000	.000
□	.534		
◇	.673		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
EL V-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(1ETU11)	OPEN	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP
(1ETL11)	FLAGGED	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

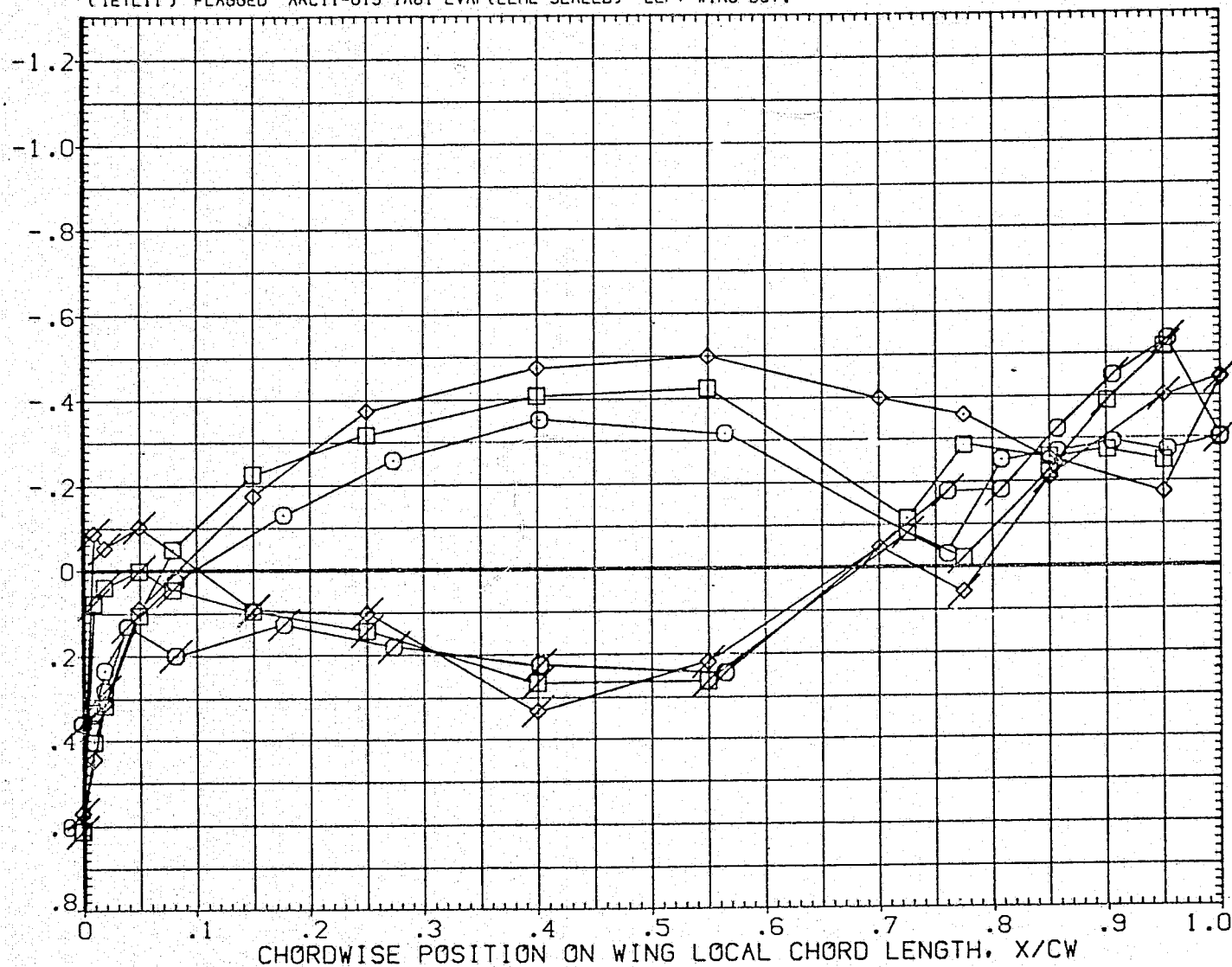


FIG. 75 WING CHORDWISE PRESS. DIST., ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 1.25

SYMBOL	Y/BW	BETA0	ALPHA0
○	.780	.000	.000
□	.887		
◇	.972		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU11)	OPEN	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP
(IETL11)	FLAGGED	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.

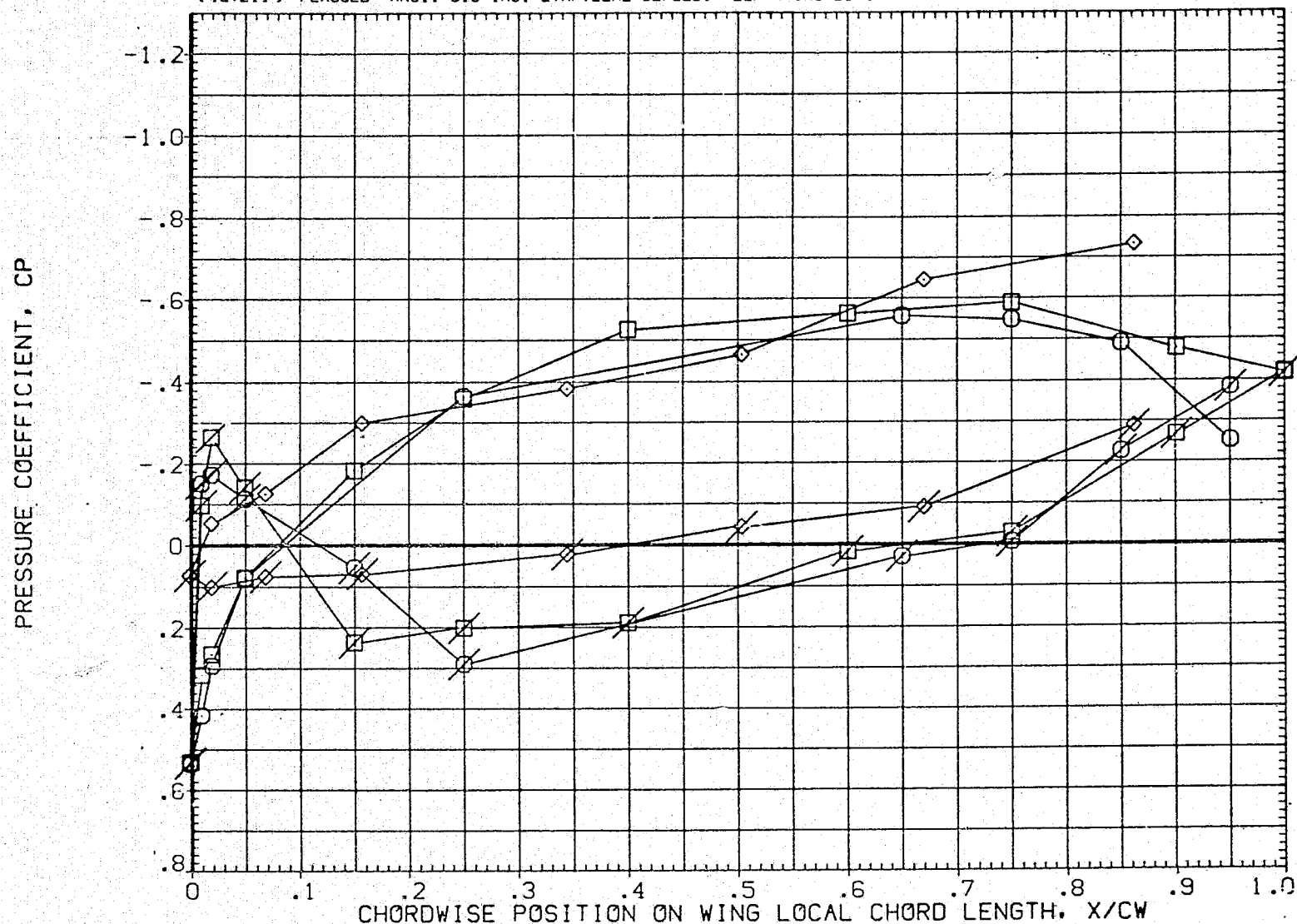


FIG. 75 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

SYMBOL	Y/BW	BETA0	ALPHA0
○	.235	4.000	.000
□	.299		
◇	.364		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-IB	8.000	ELV-CB	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(1ETU11)	OPEN	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP
(1ETL11)	FLAGGED	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

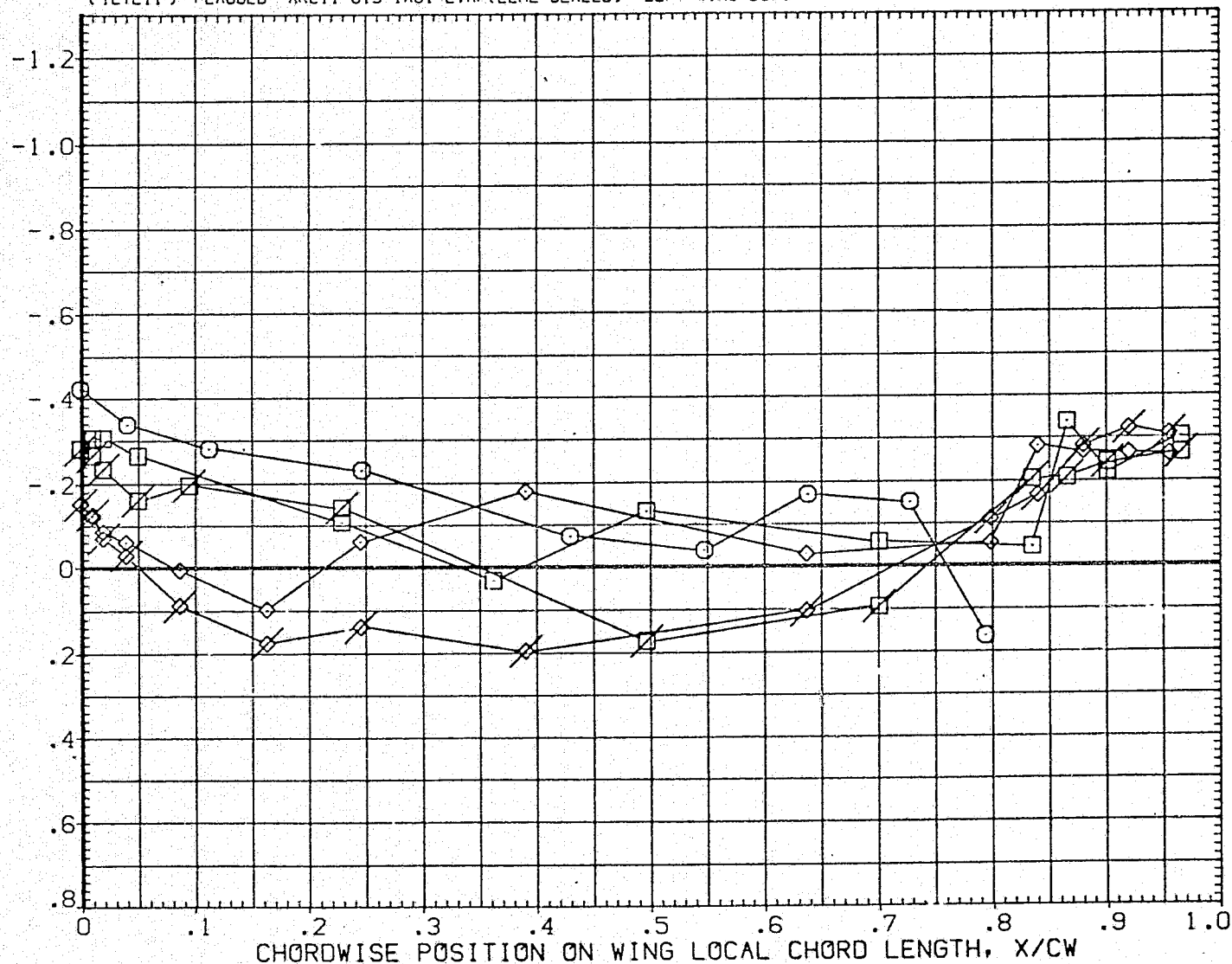


FIG. 75 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

SYMBOL	Y/BW	BETA0	ALPHA0
○	.427	4.000	.000
□	.534		
◇	.673		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDGER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU11)	OPEN	ARC11-019 (A81 LVAP(ELHL SEALED) LEFT WING TOP
(IETL11)	FLAGGED	ARC11-019 (A81 LVAP(ELHL SEALED) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

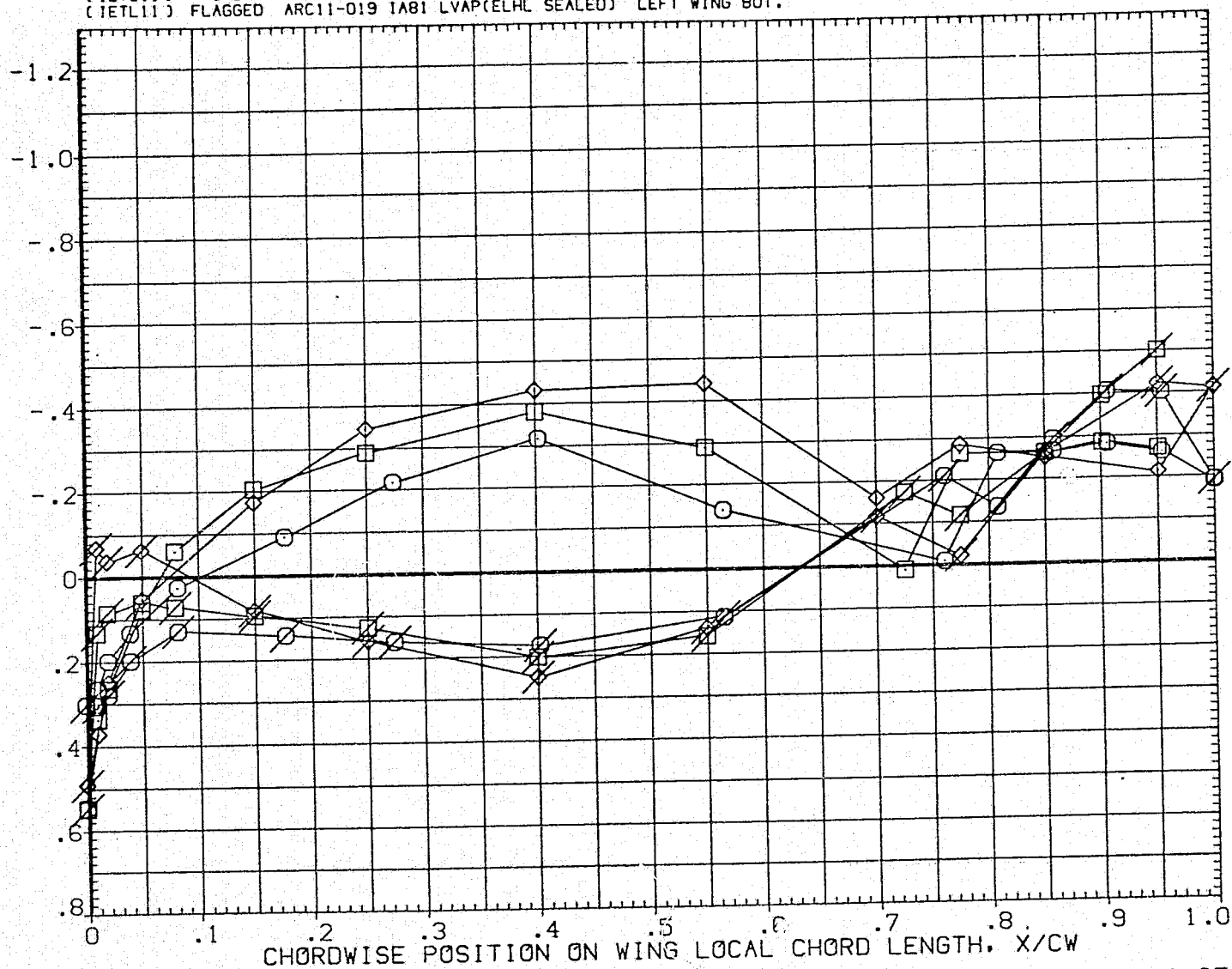


FIG. 75 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

SYMBOL	Y/BW	BETA0	ALPHA0
○	.780	4.000	.000
□	.887		
◇	.972		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU11)	OPEN	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP
(IETL11)	FLAGGED	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

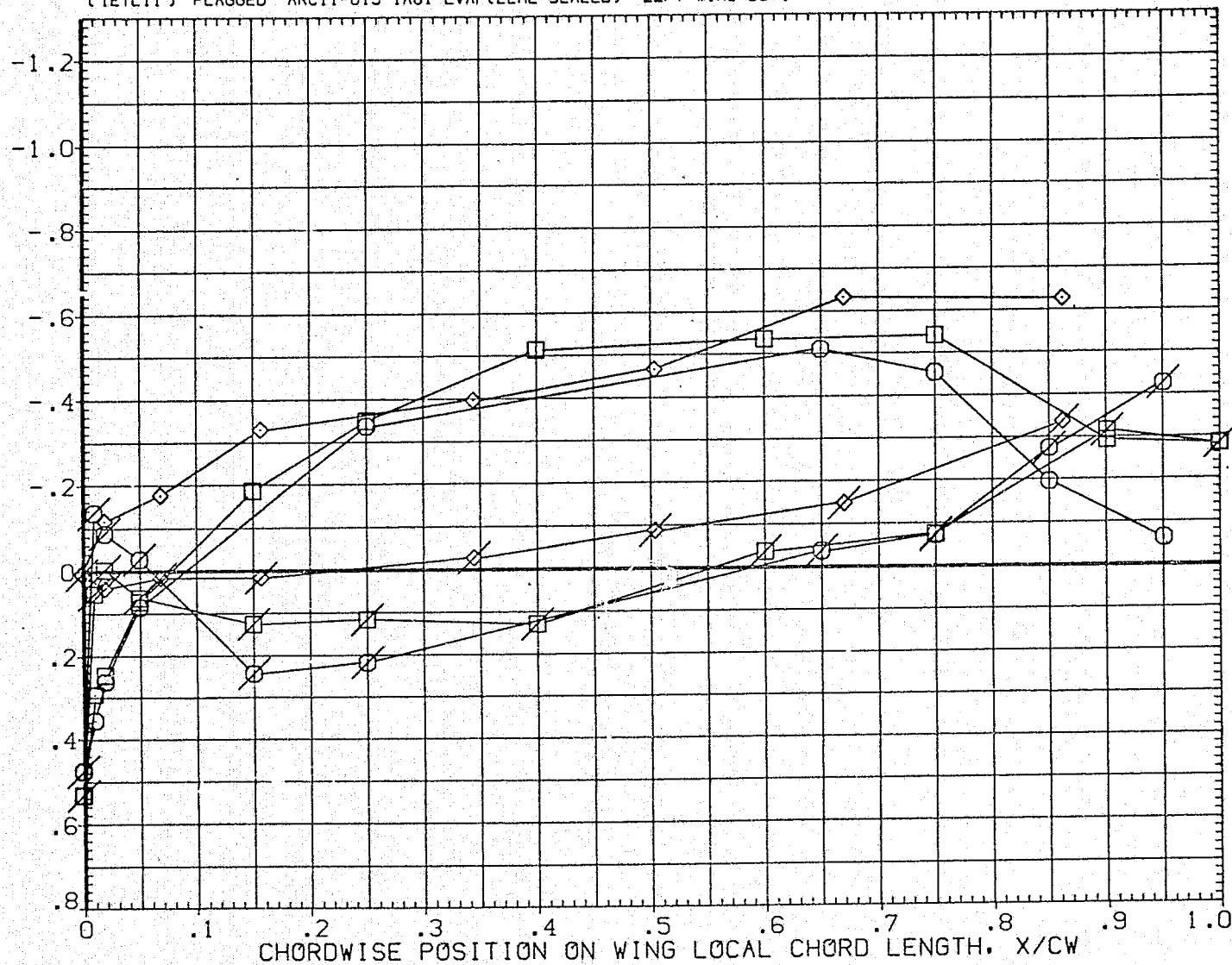


FIG. 75 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

SYMBOL	Y/BW	BETA0	ALPHA0
○	.235	-4.000	4.000
□	.299		
◇	.364		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU11)	OPEN	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING TOP
(IETL11)	FLAGGED	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

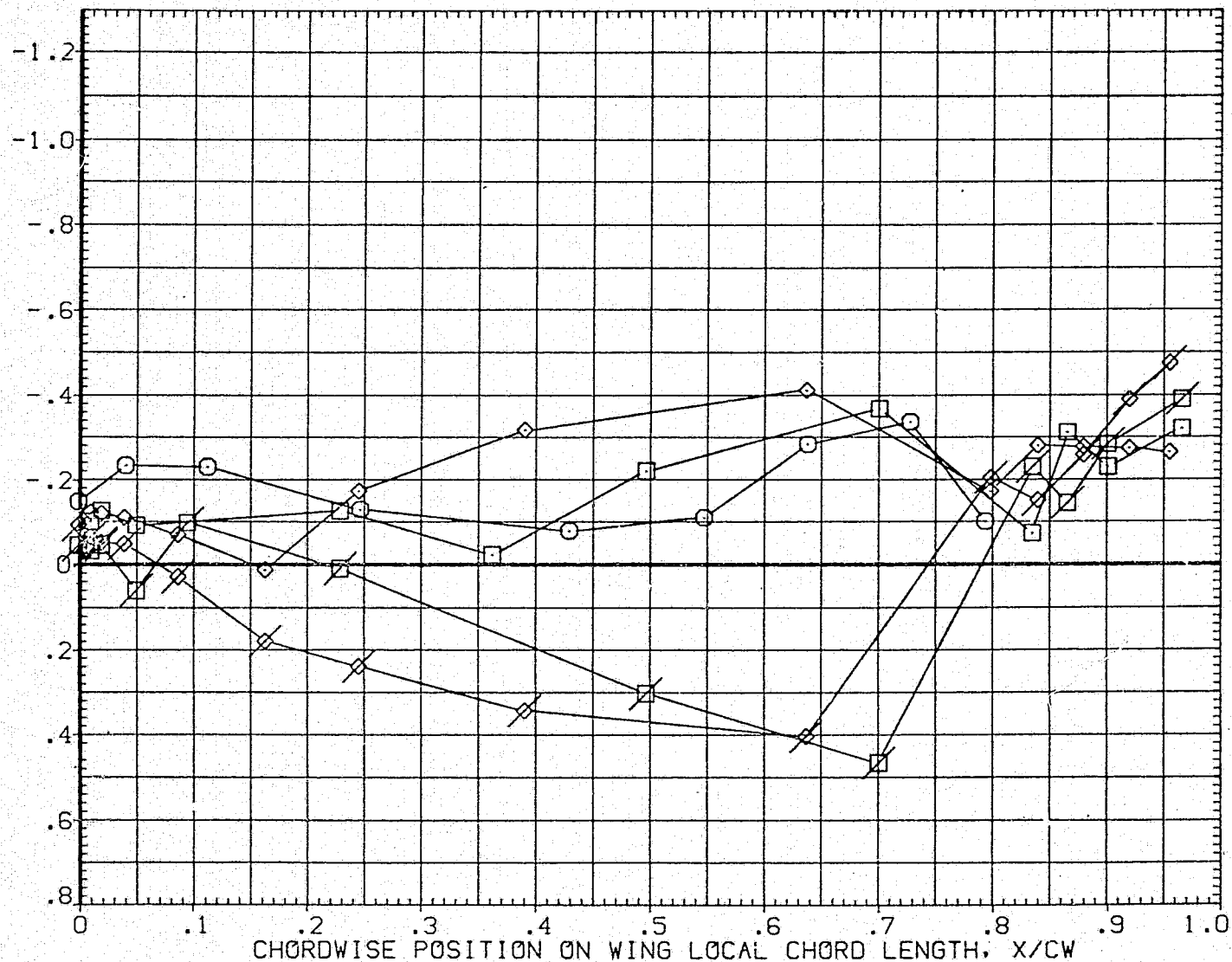


FIG. 75 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

SYMBOL	Y/BW	BETA0	ALPHA0
○	.427	-4.000	4.000
□	.534		
◇	.673		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(1ETU11)	OPEN	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP
(1ETL11)	FLAGGED	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.

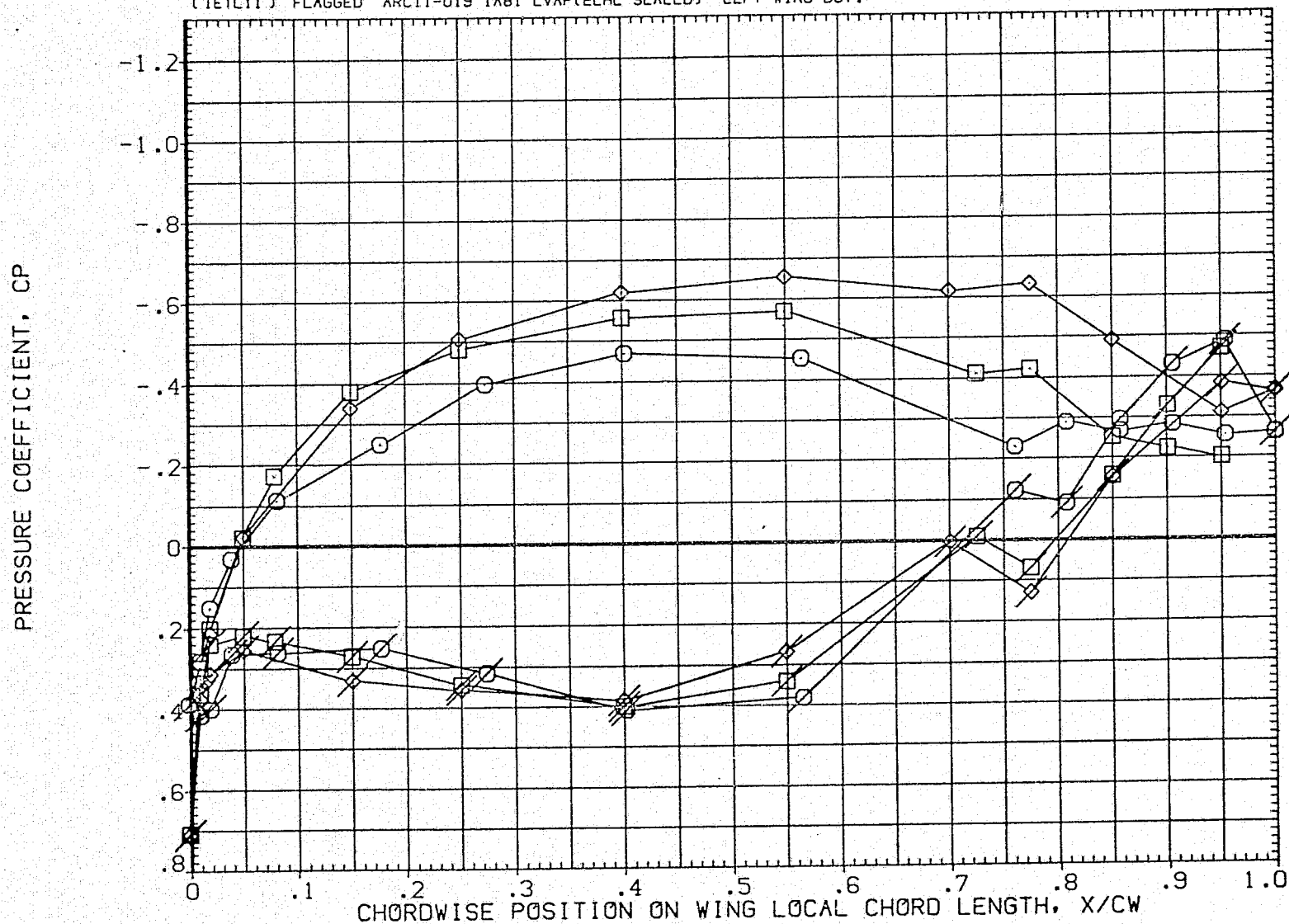


FIG. 75 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

SYMBOL	Y/BW	BETA0	ALPHA0
○	.780	-4.000	4.000
□	.887		
◇	.972		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU11)	OPEN	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING TOP
(IETL11)	FLAGGED	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

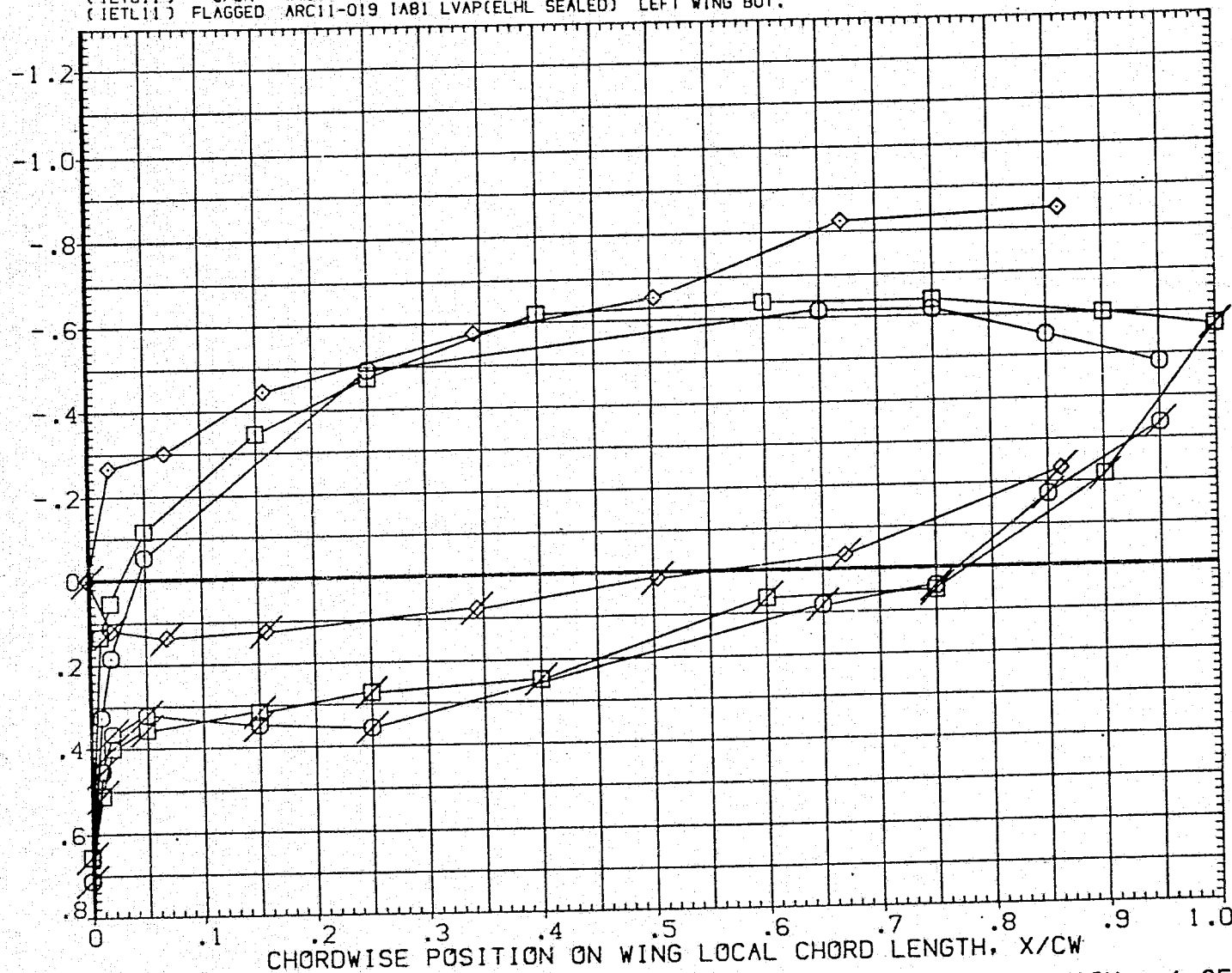


FIG. 75 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

SYMBOL	Y/BW	BETA0	ALPHA0
○	.235	.000	4.000
□	.299		
◇	.364		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU11)	OPEN	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP
(IETL11)	FLAGGED	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

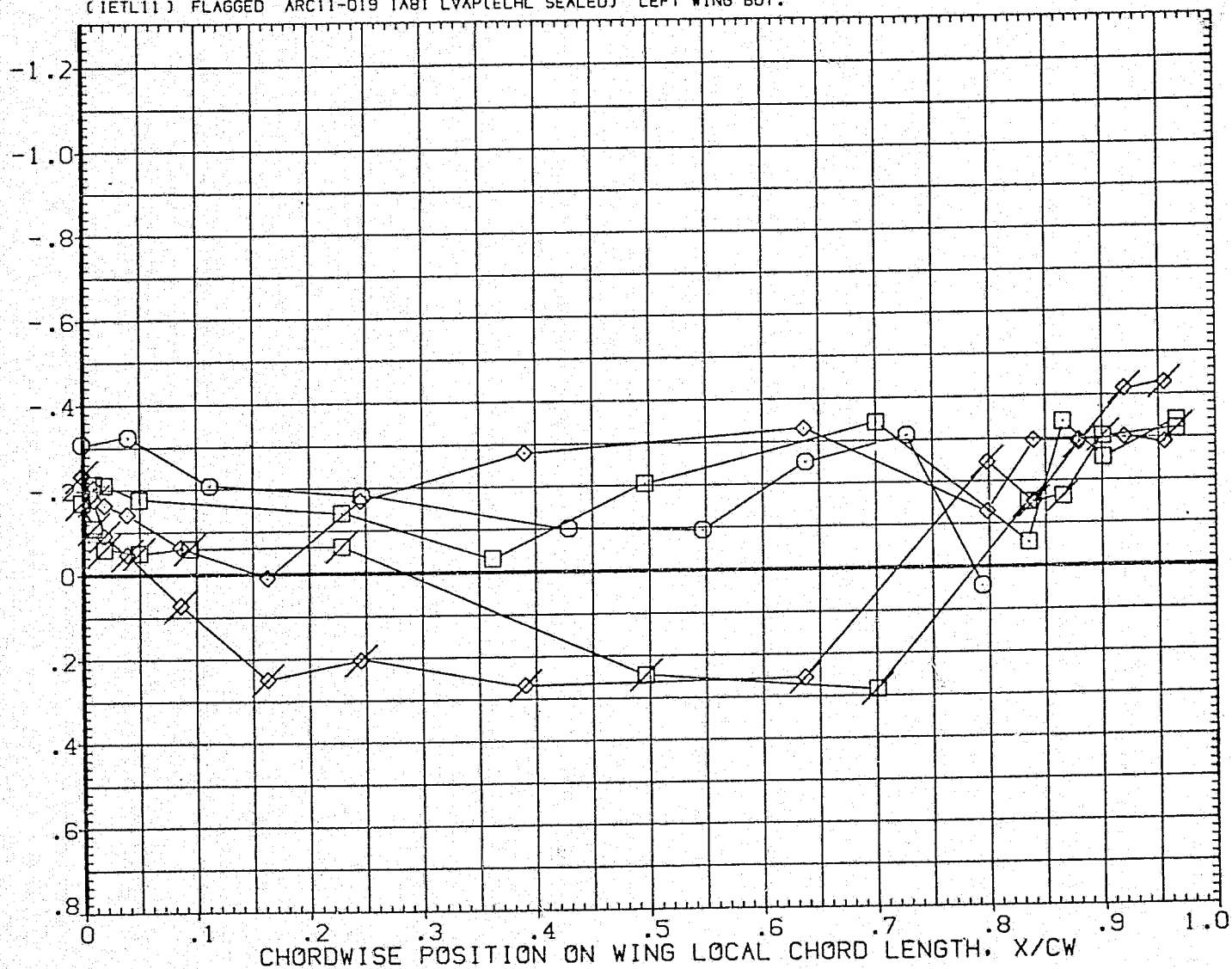


FIG. 75 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

SYMBOL	Y/BW	BETA0	ALPHA0
○	.427	.000	4.000
□	.534		
◇	.673		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU11)	OPEN	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP
(IETL11)	FLAGGED	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

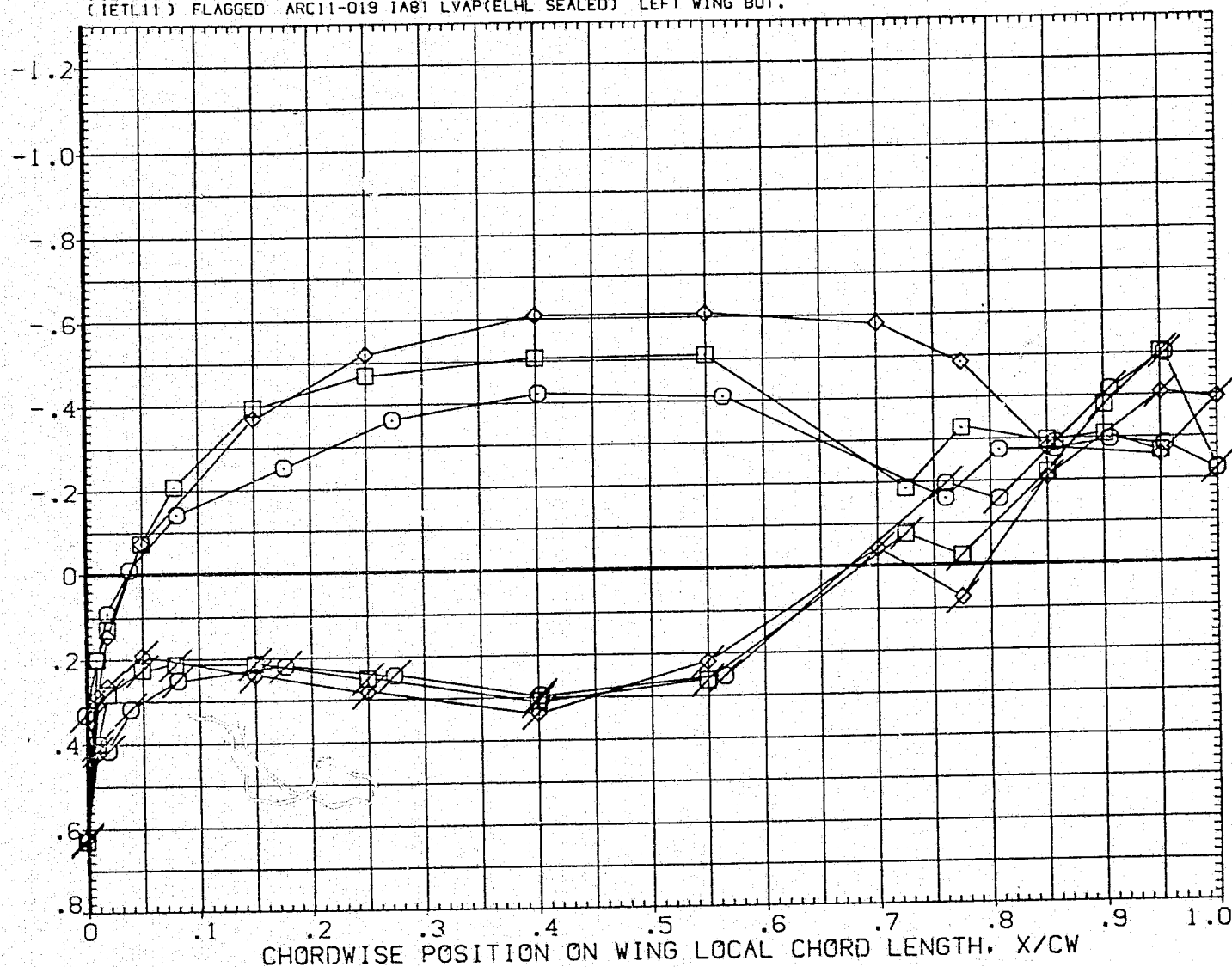


FIG. 75 WING CHORDWISE PRESS. DIST., ELEVON 1/0 = 8/4, SPDBRK = 0, MACH = 1.25

SYMBOL	Y/BW	BETA0	ALPHA0
○	.780	.000	4.000
□	.887		
◇	.972		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-IB	9.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IFTU11)	OPEN	ARC11-019 IA81 LVAP(ELHL SEALED) LEFT WING TOP
(IETL11)	FLAGGED	ARC11-019 IA81 LVAP(ELHL SEALED) LEFT WING BOT.

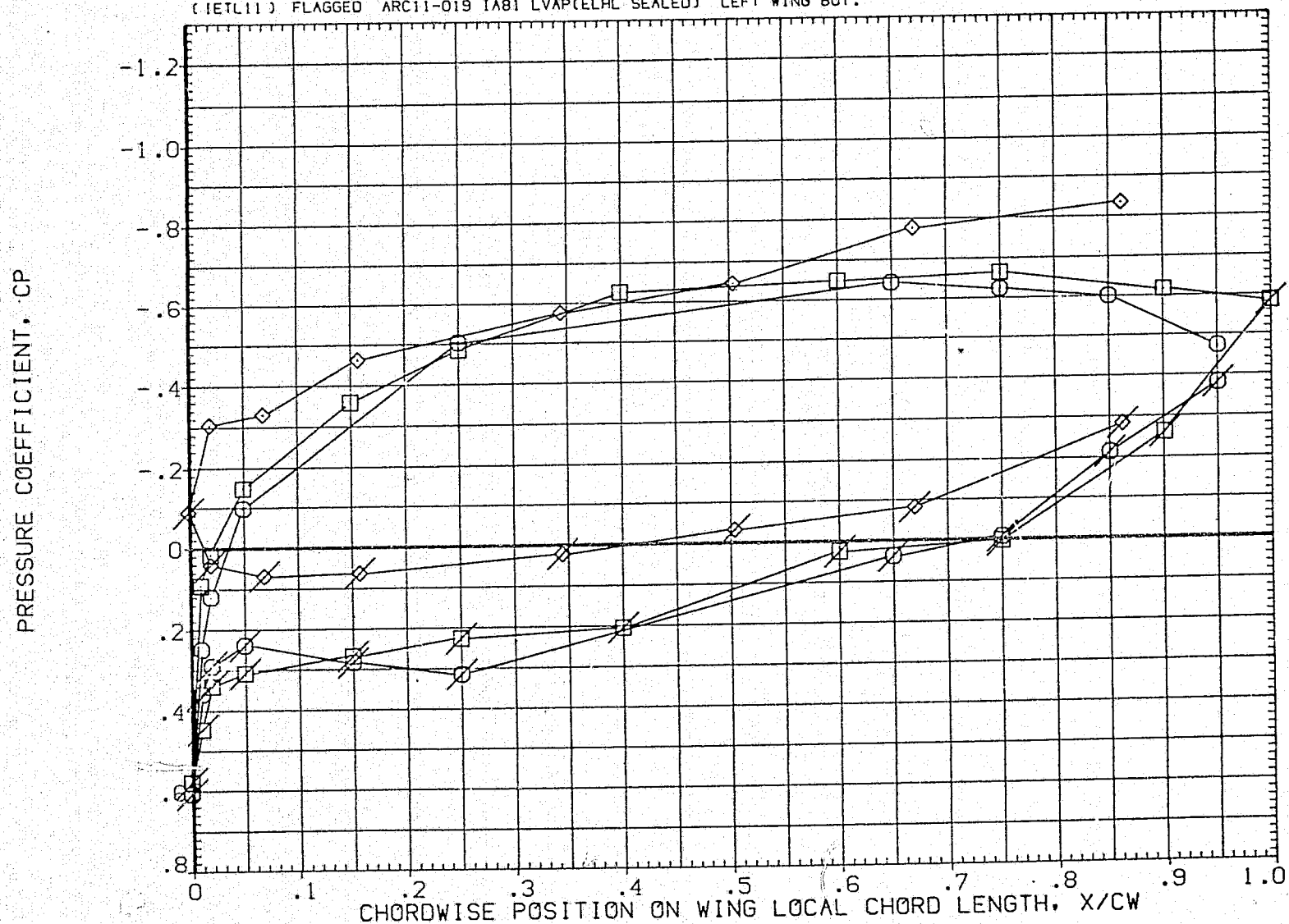


FIG. 75 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

SYMBOL	Y/BW	BETA0	ALPHA0
○	.235	4.000	4.000
□	.299		
◇	.354		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU11)	OPEN	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING TOP
(IETL11)	FLAGGED	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

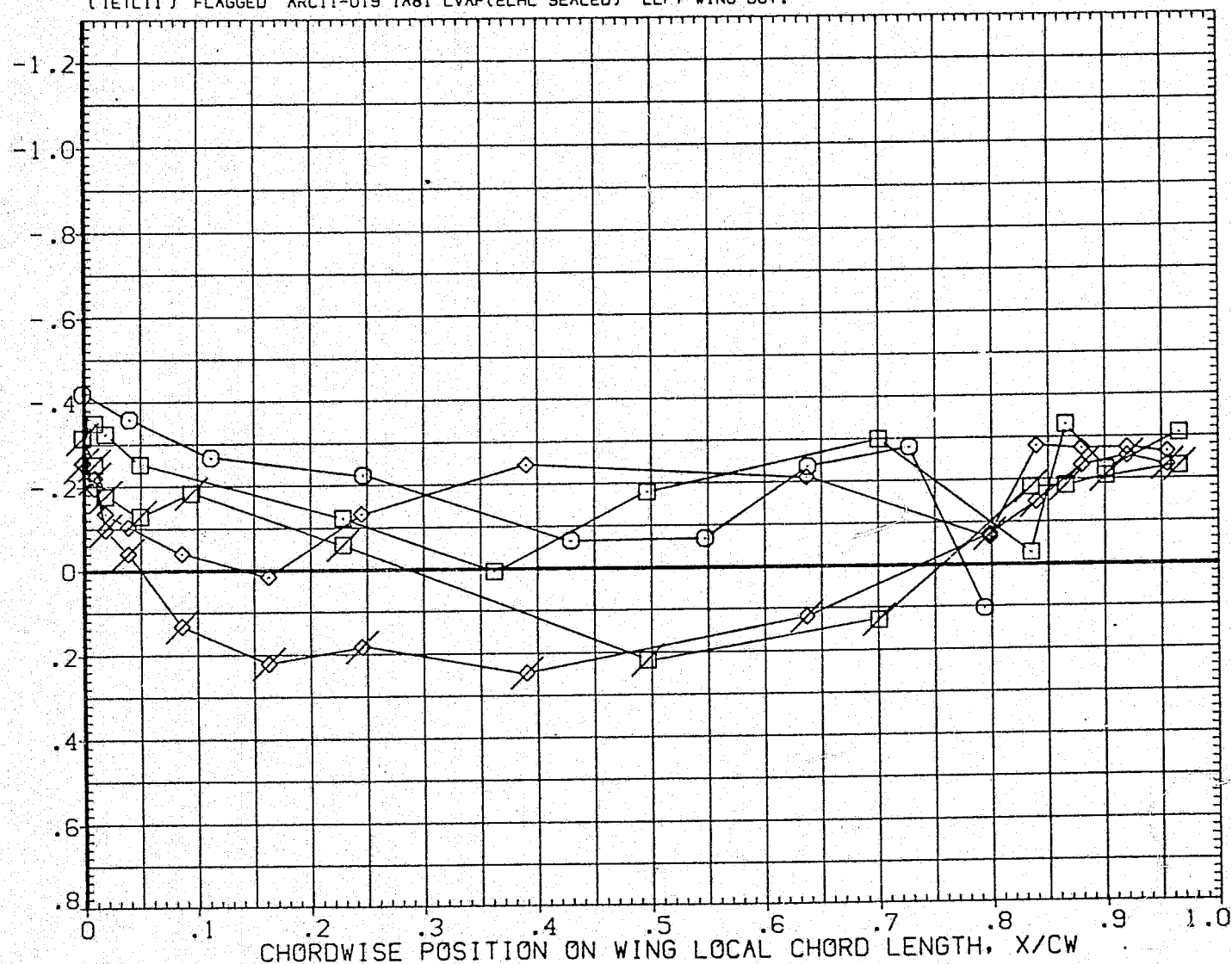


FIG. 75 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

SYMBOL	Y/BW	BETA0	ALPHA0
◇	.427	4.000	4.000
○	.534		
□	.673		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-18	8.000	ELV-08	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(1ETU11)	OPEN	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP
(1ETL11)	FLAGGED	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

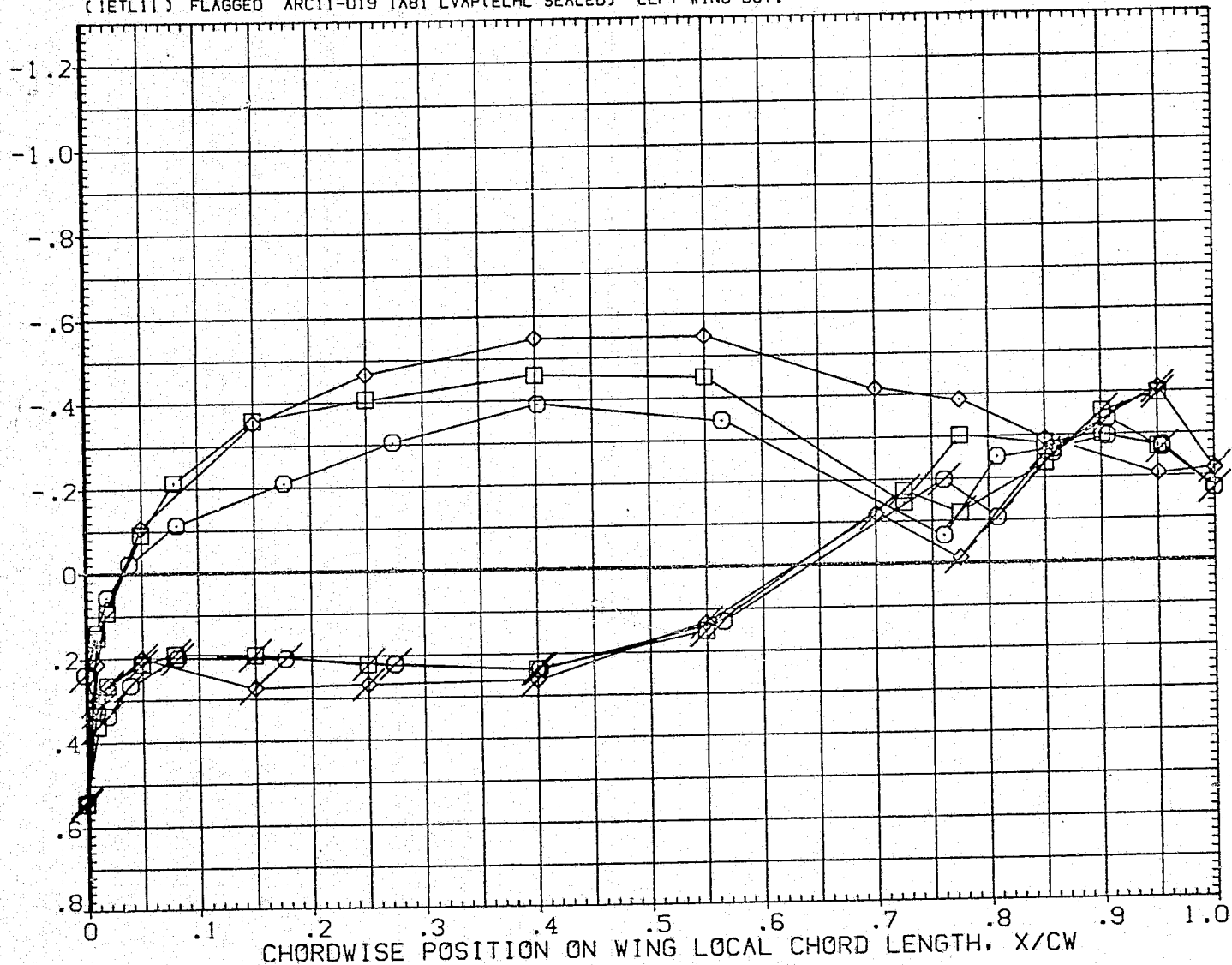


FIG. 75 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

SYMBOL	Y/BW	BETA0	ALPHA0
○	.780	4.000	4.000
□	.887		
◇	.972		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-IB	8.000	ELV-OB	4.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(JETU11)	OPEN	ARC11-019 (A81 LVAP(ELHL SEALED) LEFT WING TOP
(JETL11)	FLAGGED	ARC11-019 (A81 LVAP(ELHL SEALED) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

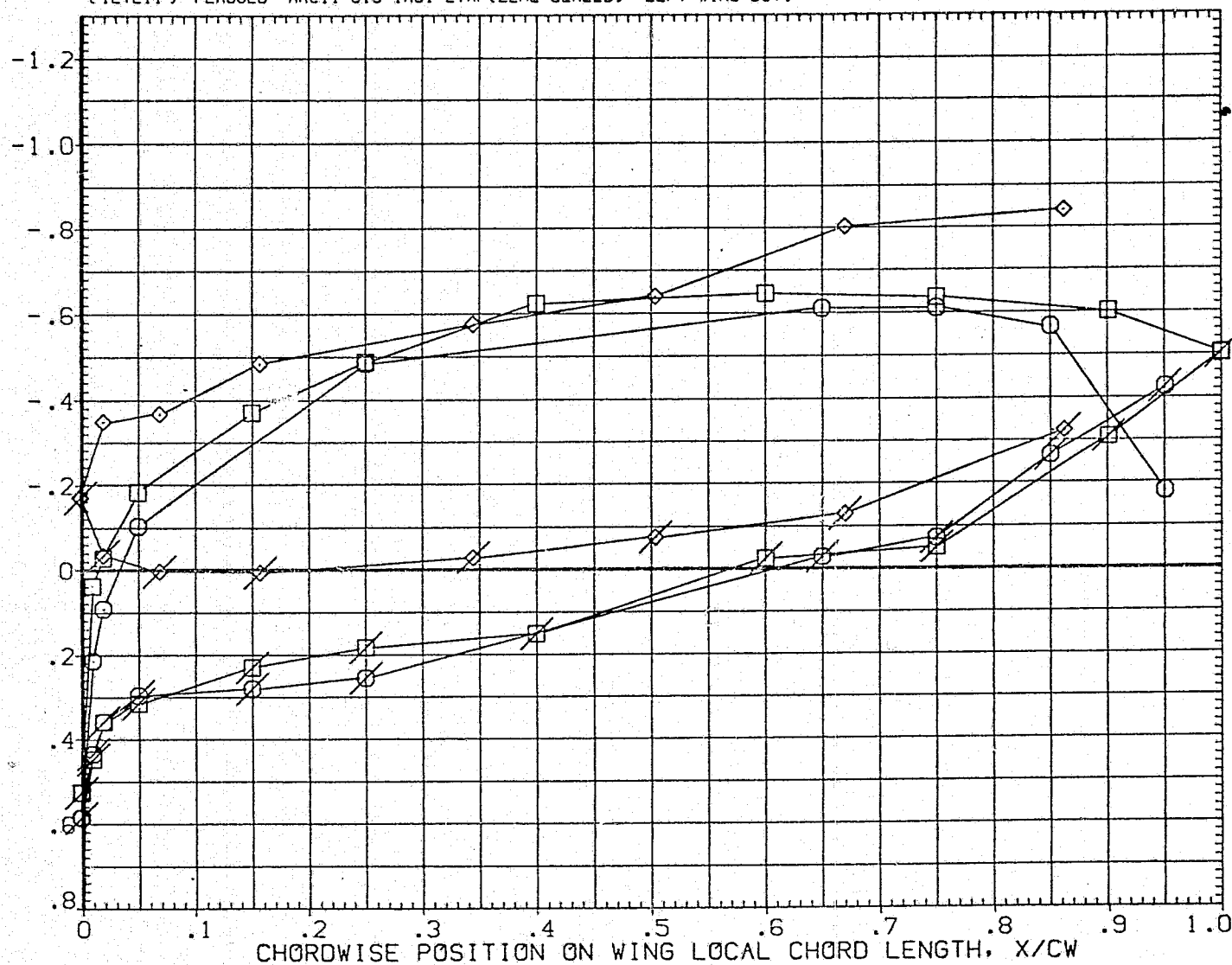


FIG. 75 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/4, SPDBRK = 0, MACH = 1.25

SYMBOL	Y/BW	BETA0	ALPHA0
○	.235	-4.000	-4.000
□	.299		
◇	.364		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-IB	8.000	ELV-OB	.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU12)	OPEN	ARC11-019 IA81 LVAP(ELHL SEALED) LEFT WING TOP
(IETL12)	FLAGGED	ARC11-019 IA81 LVAP(ELHL SEALED) LEFT WING BOT.

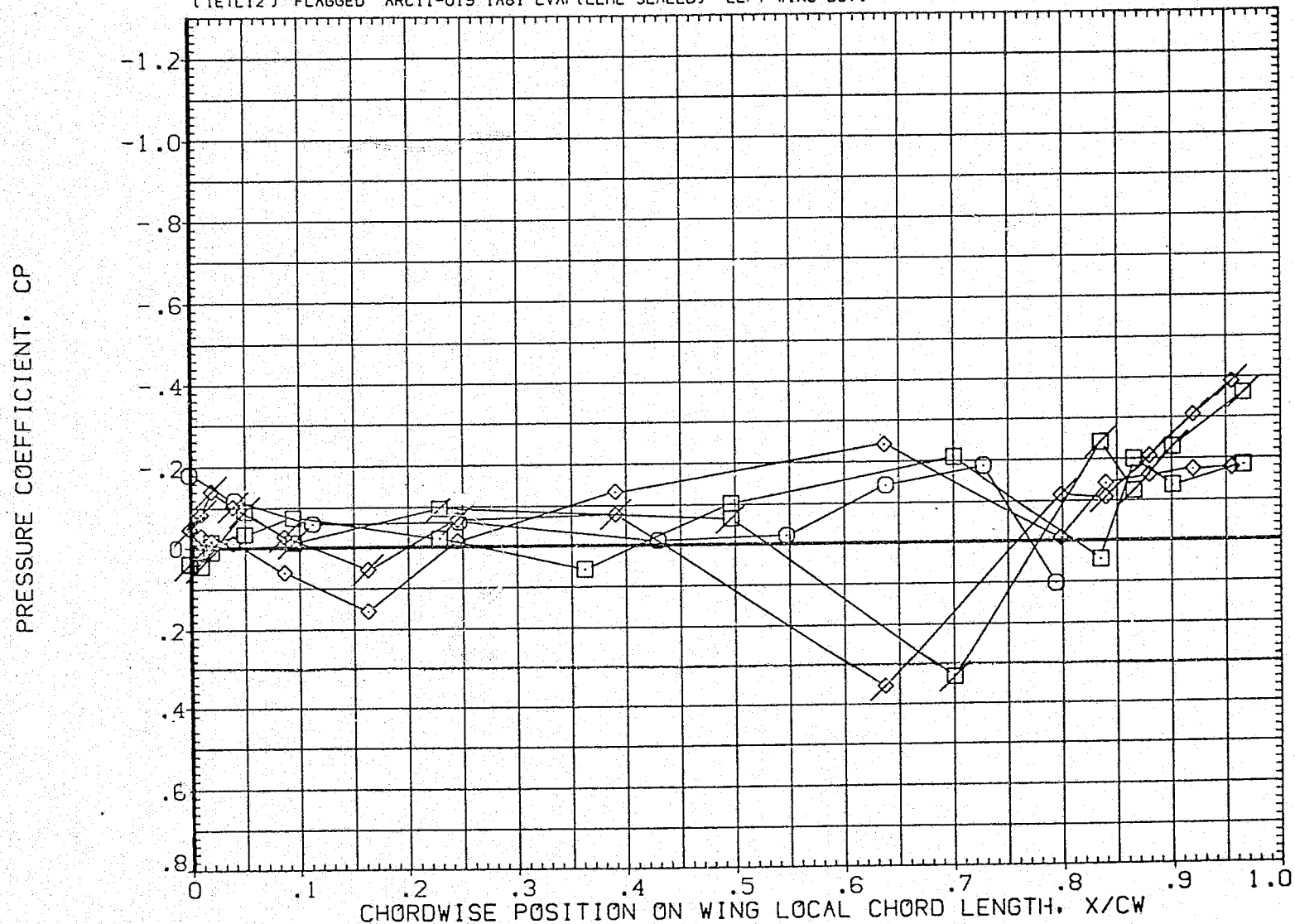


FIG. 76 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/0, SPDBRK = 0, MACH = 1.4

SYMBOL	Y/BW	BETA0	ALPHA0
○	.427	-4.000	-4.000
□	.534		
◇	.673		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-18	8.000	ELV-08	.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU12)	OPEN	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP
(IETL12)	FLAGGED	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

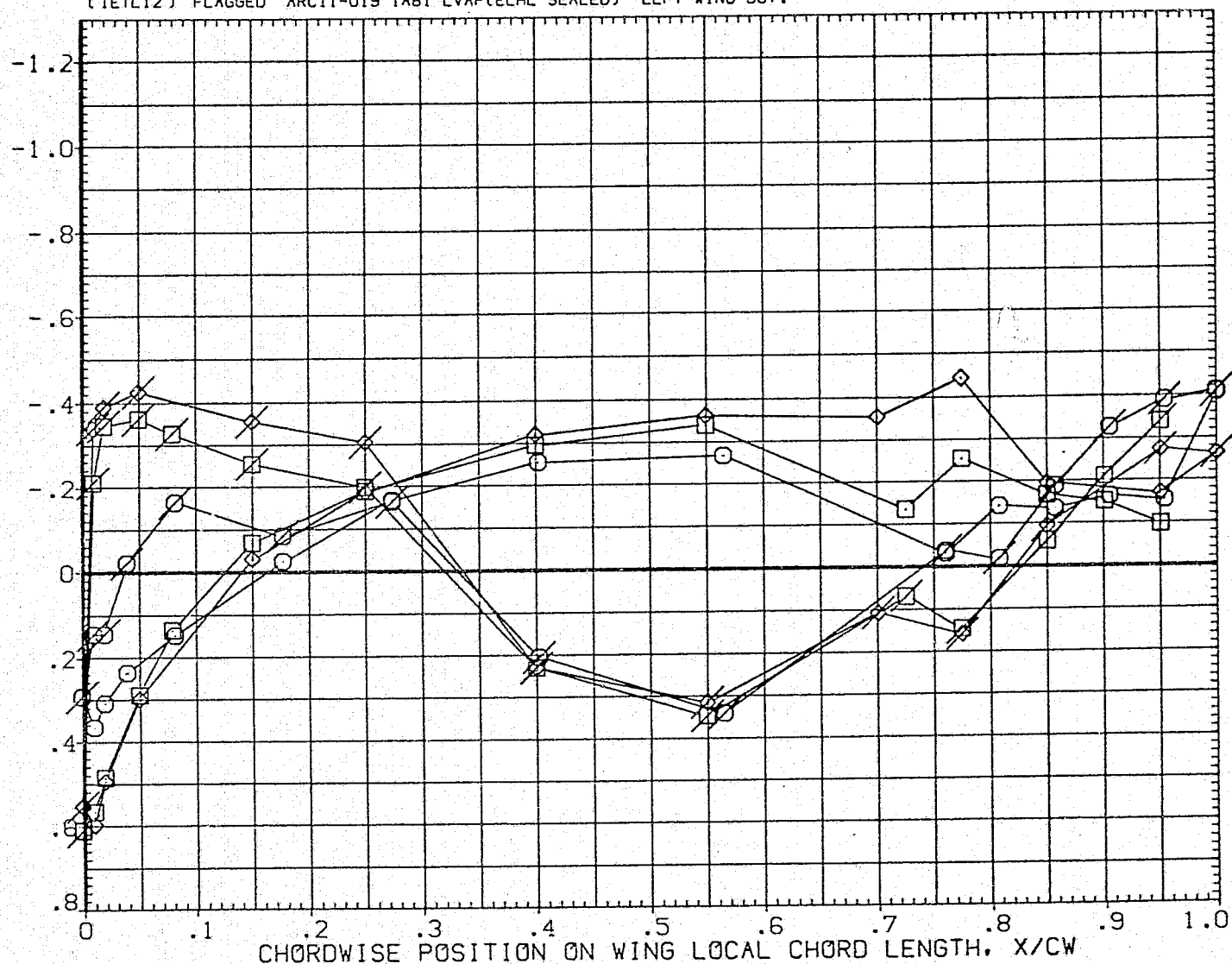


FIG. 76 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/0, SPDBRK = 0, MACH = 1.4

SYMBOL	Y/BW	BETA0	ALPHA0
○	.780	-4.000	-4.000
□	.887		
◇	.972		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-18	8.000	ELV-08	.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU12)	OPEN	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP
(IETL12)	FLAGGED	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

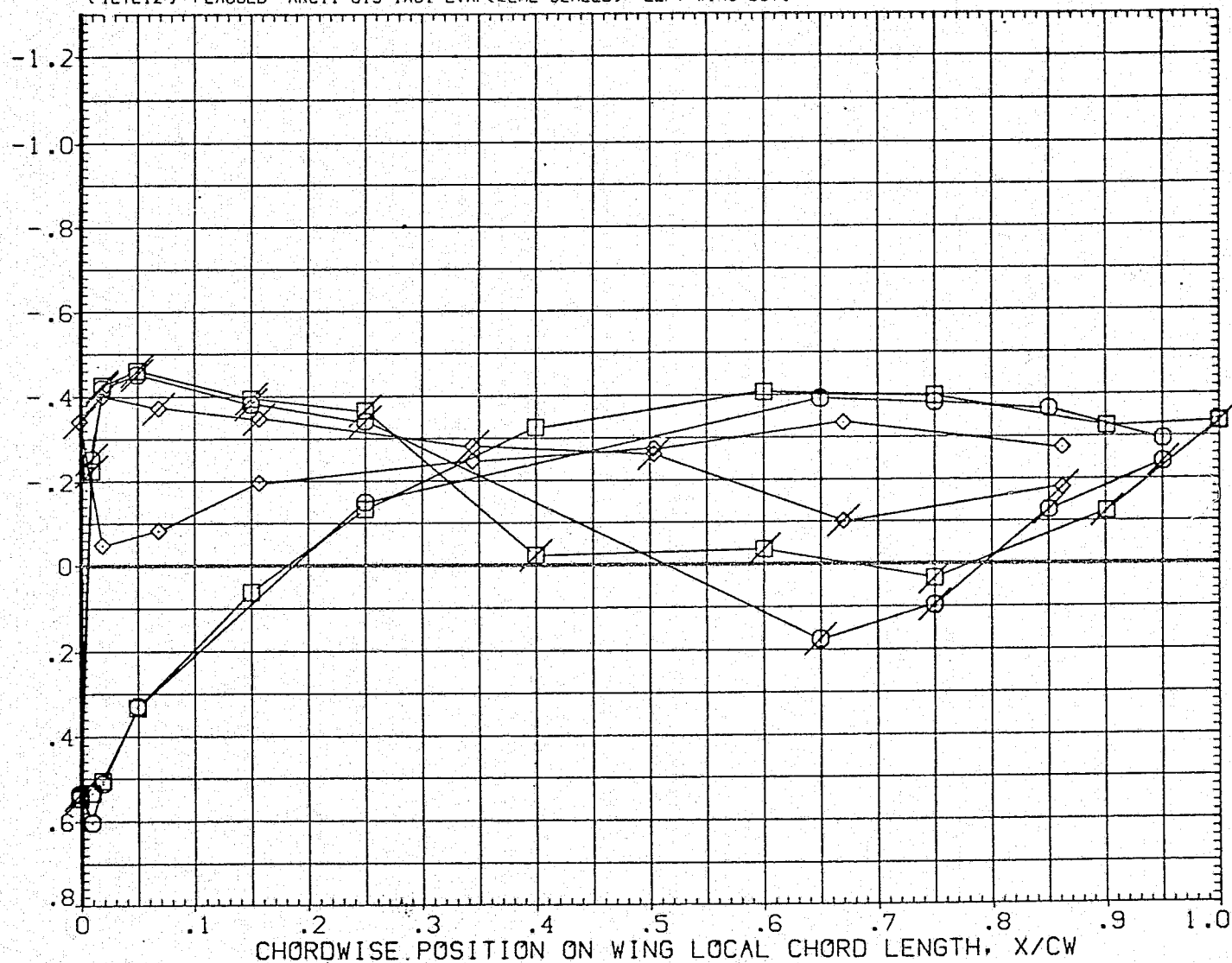


FIG. 76 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/0, SPDBRK = 0, MACH = 1.4

SYMBOL	Y/BW	BETA0	ALPHA0
○	.35	.000	-4.000
□	.299		
◇	.364		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-1B	8.000	ELV-0B	.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(1ETU12)	OPEN	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP
(1ETL12)	FLAGGED	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

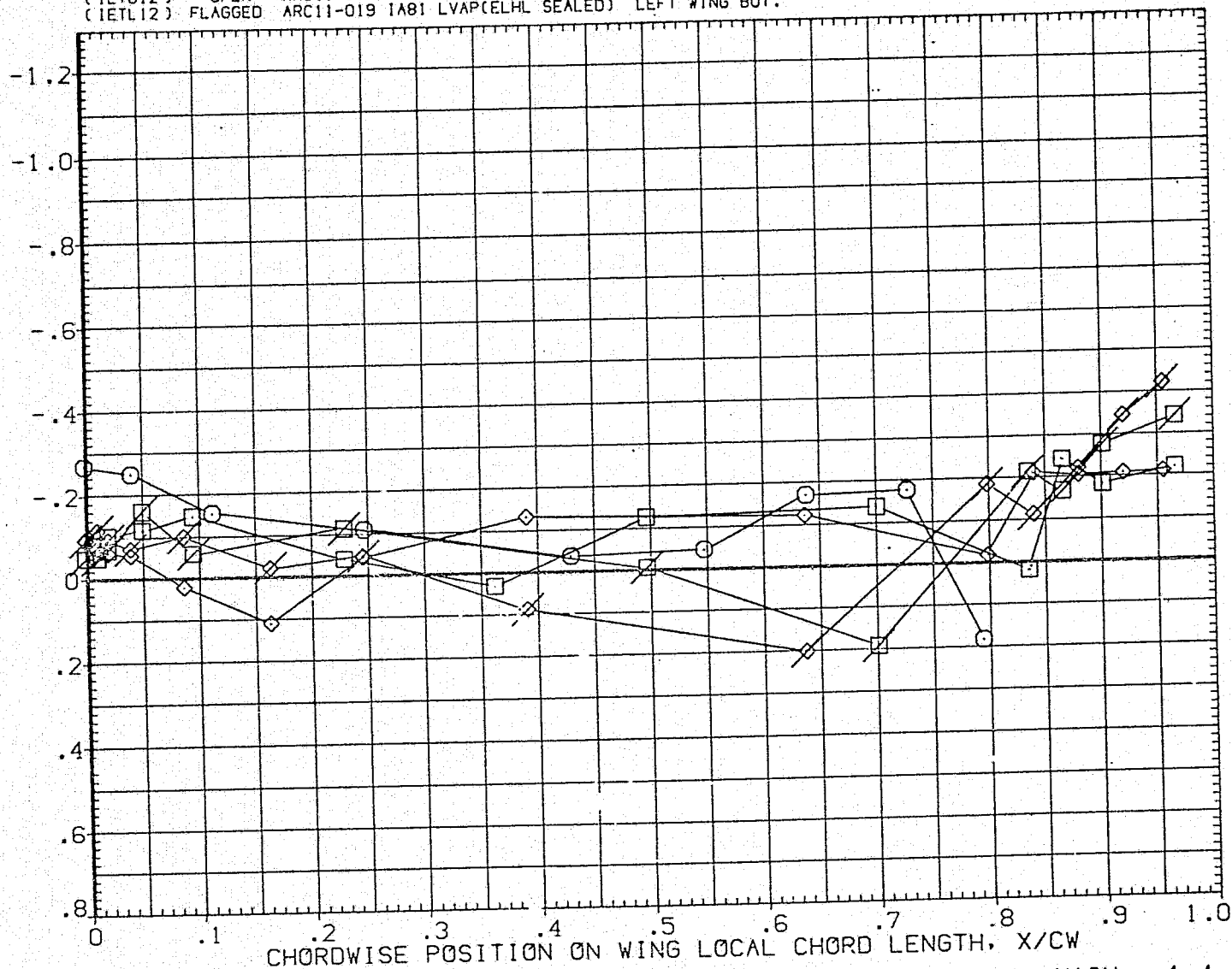


FIG. 76 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/0, SPDBRK = 0, MACH = 1.4

SYMBOL	Y/BW	BETA0	ALPHA0
○	.427	.000	-4.000
□	.534		
◇	.673		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-18	8.000	ELV-08	.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU12)	OPEN	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING TOP
(IETL12)	LAGGED	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

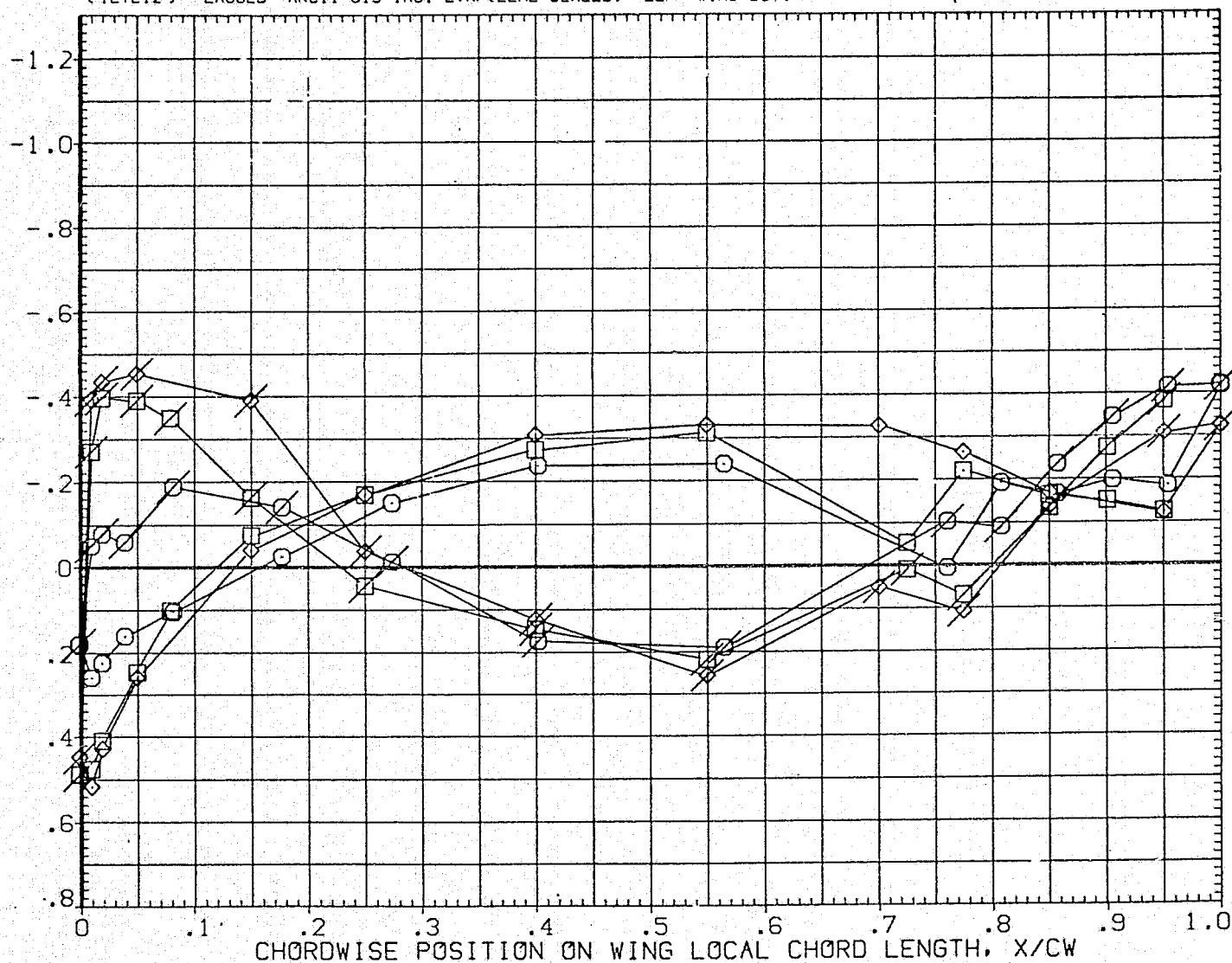


FIG. 76 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/0, SPDBRK = 0, MACH = 1.4

SYMBOL	Y/BW	BETA0	ALPHA0
○	.780	.000	-4.000
□	.887		
◇	.972		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-IB	8.000	ELV-OB	.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU12)	OPEN	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP
(IETL12)	FLAGGED	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

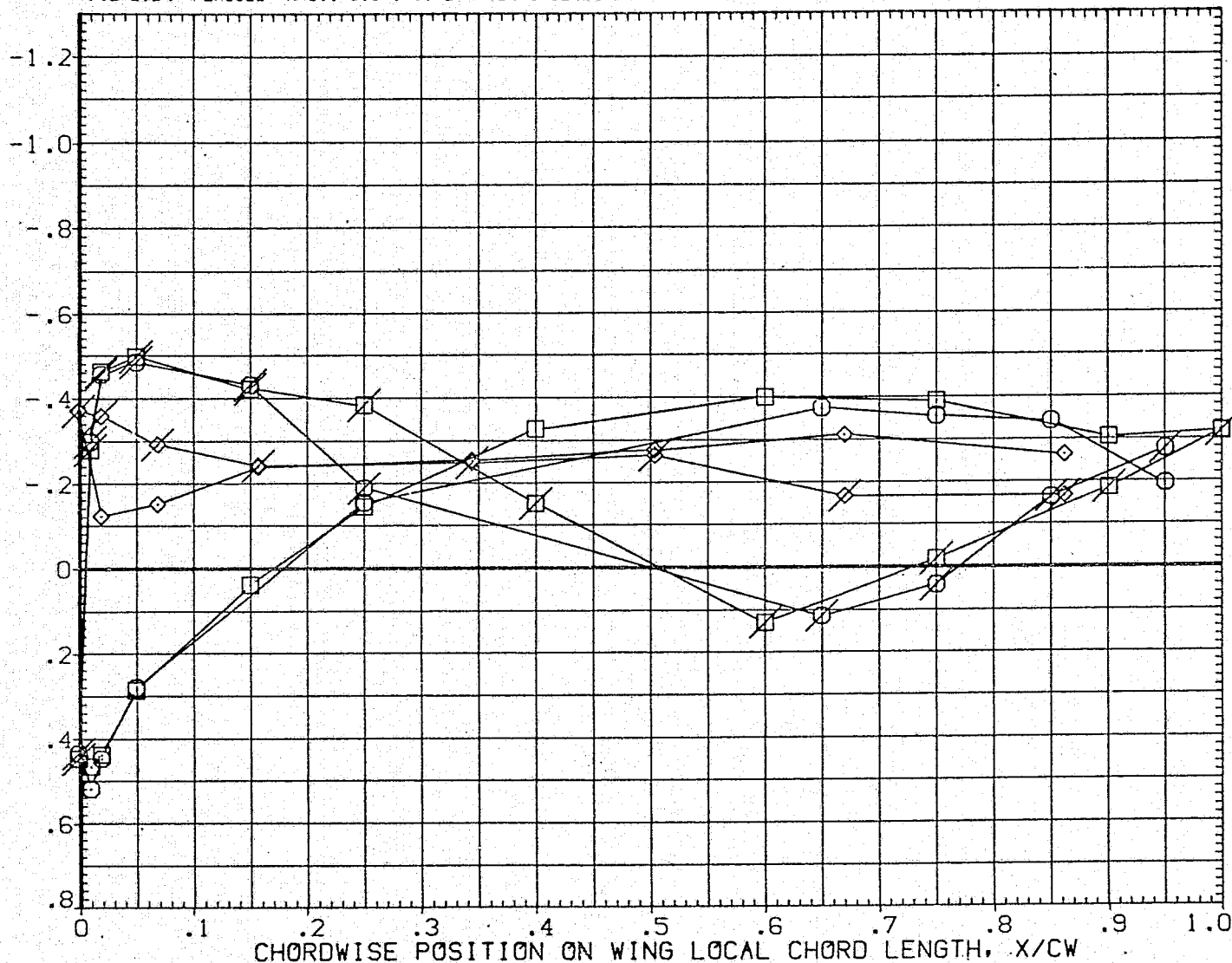


FIG. 76 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/0, SPDBRK = 0, MACH = 1.4

SYMBOL	Y/BW	BETA0	ALPHA0
○	.235	4.000	-4.000
□	.299		
◇	.364		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-IB	8.000	ELV-OB	.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU12)	OPEN	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP
(IETL12)	FLAGGED	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

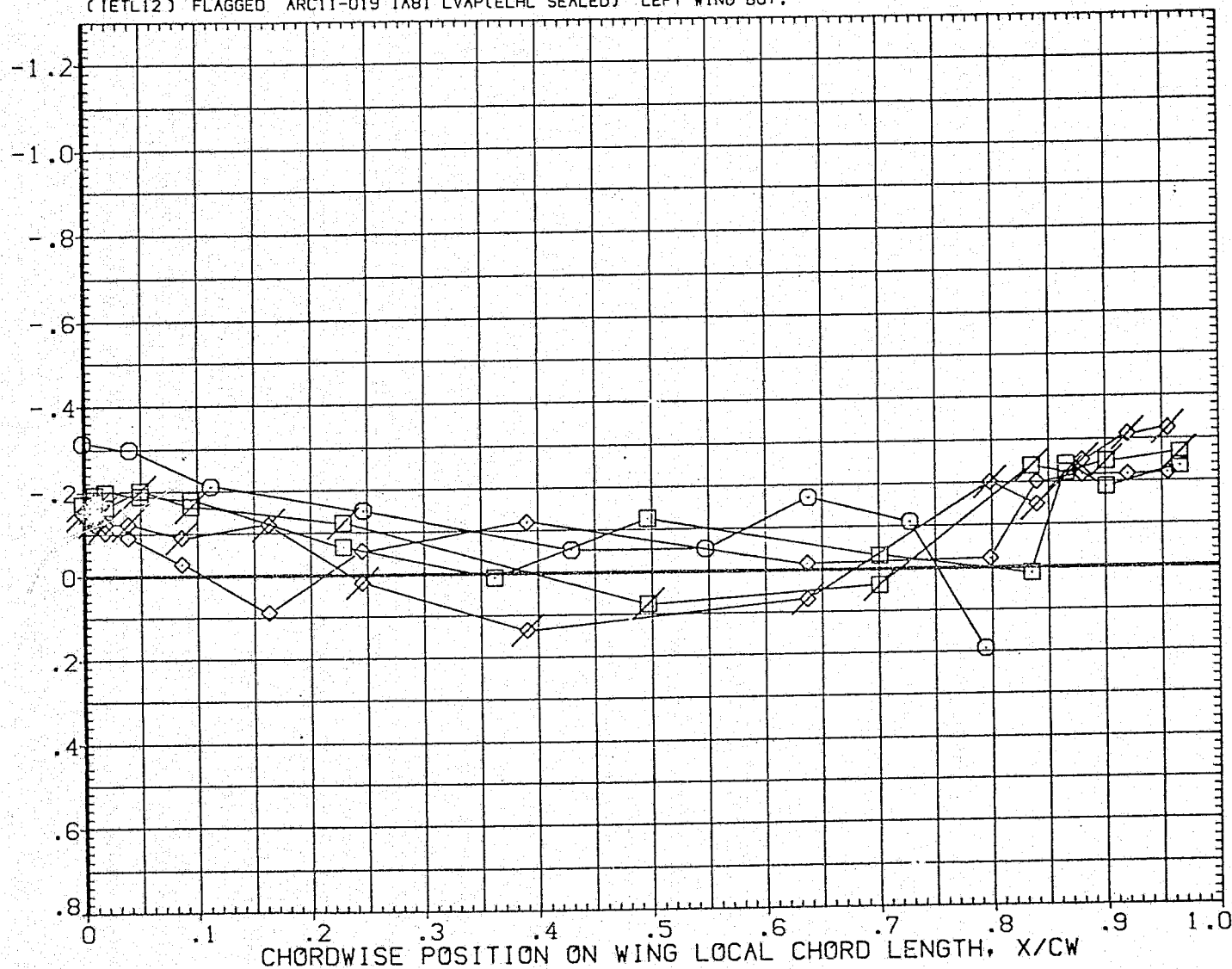


FIG. 76 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/0, SPDBRK = 0, MACH = 1.4

SYMBOL	Y/BW	BETA0	ALPHA0
○	.427	4.000	-4.000
□	.534		
◇	.673		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-1B	8.000	ELV-0B	.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(1ETU12)	OPEN	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP
(1ETL12)	FLAGGED	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.

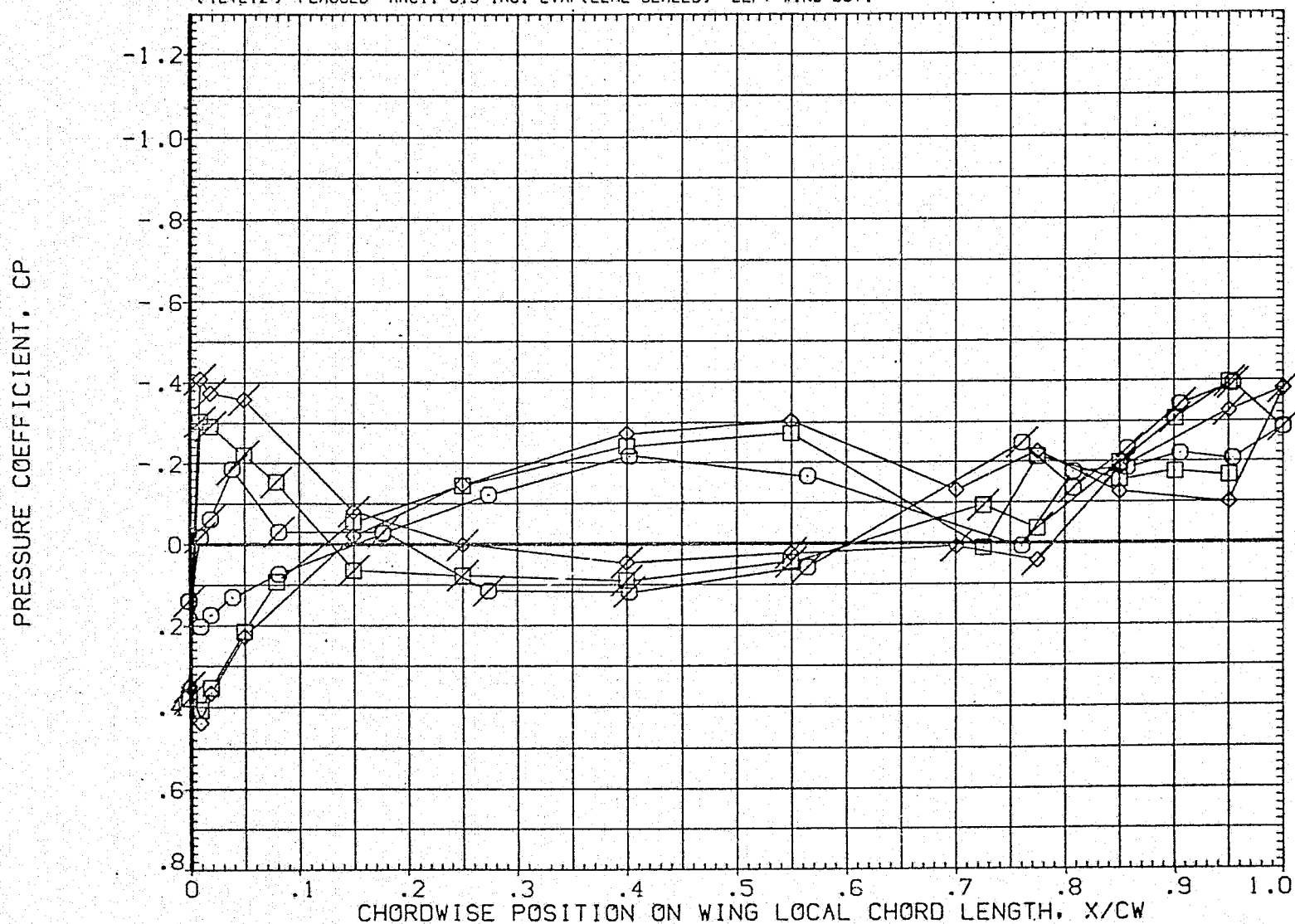


FIG. 76 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/0, SPDBRK = 0, MACH = 1.4

SYMBOL	Y/BW	BETA0	ALPHA0
○	.780	4.000	-4.000
□	.887		
◇	.972		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-18	8.000	ELV-08	.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(1ETU12)	OPEN	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP
(1ETL12)	FLAGGED	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

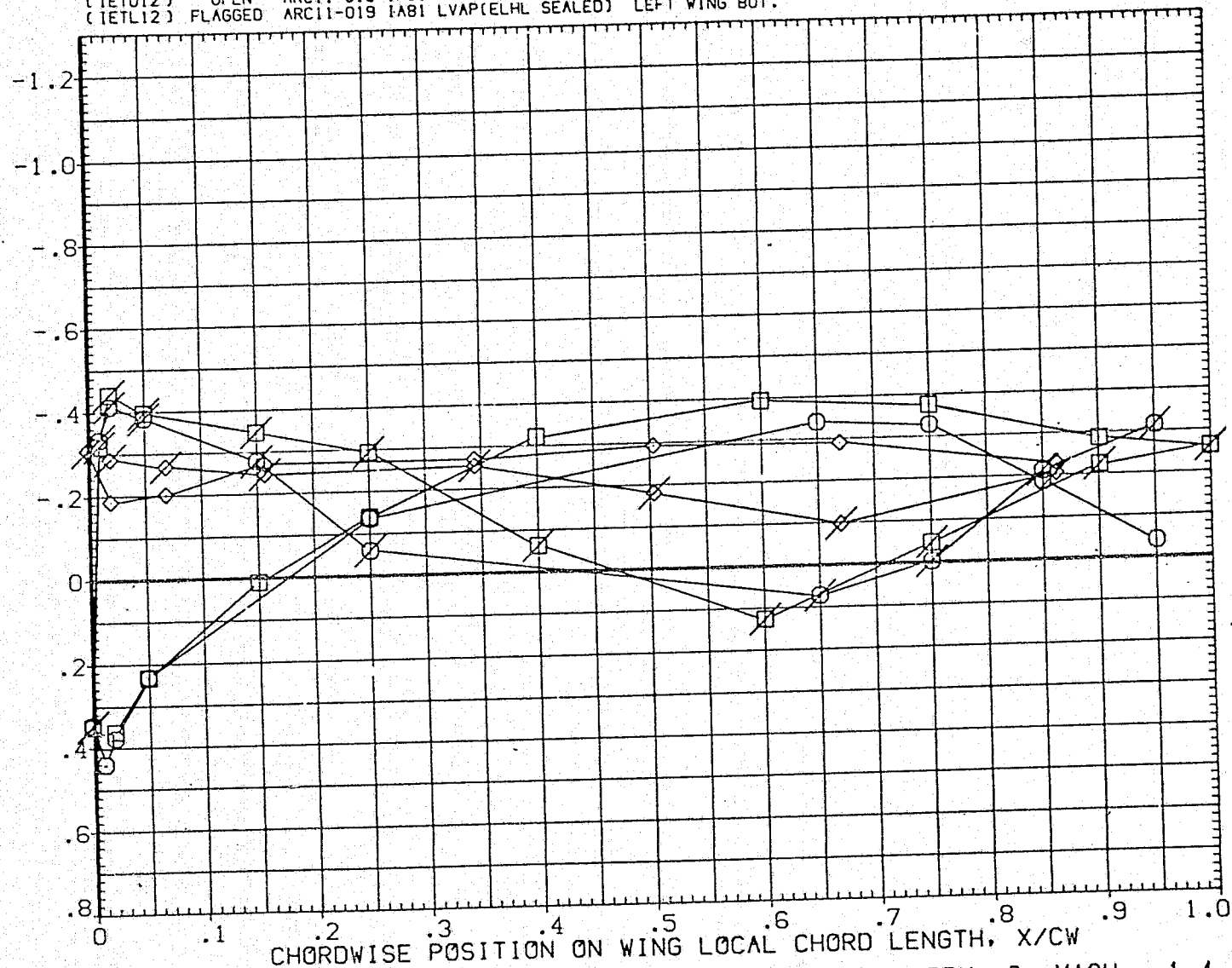


FIG. 76 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/0, SPDBRK = 0, MACH = 1.4

SYMBOL	Y/BW	BETA0	ALPHA0
○	.235	-4.000	.000
□	.299		
◇	.364		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-1B	8.000	ELV-0B	.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(1ETU12)	OPEN	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP
(1ETL12)	FLAGGED	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

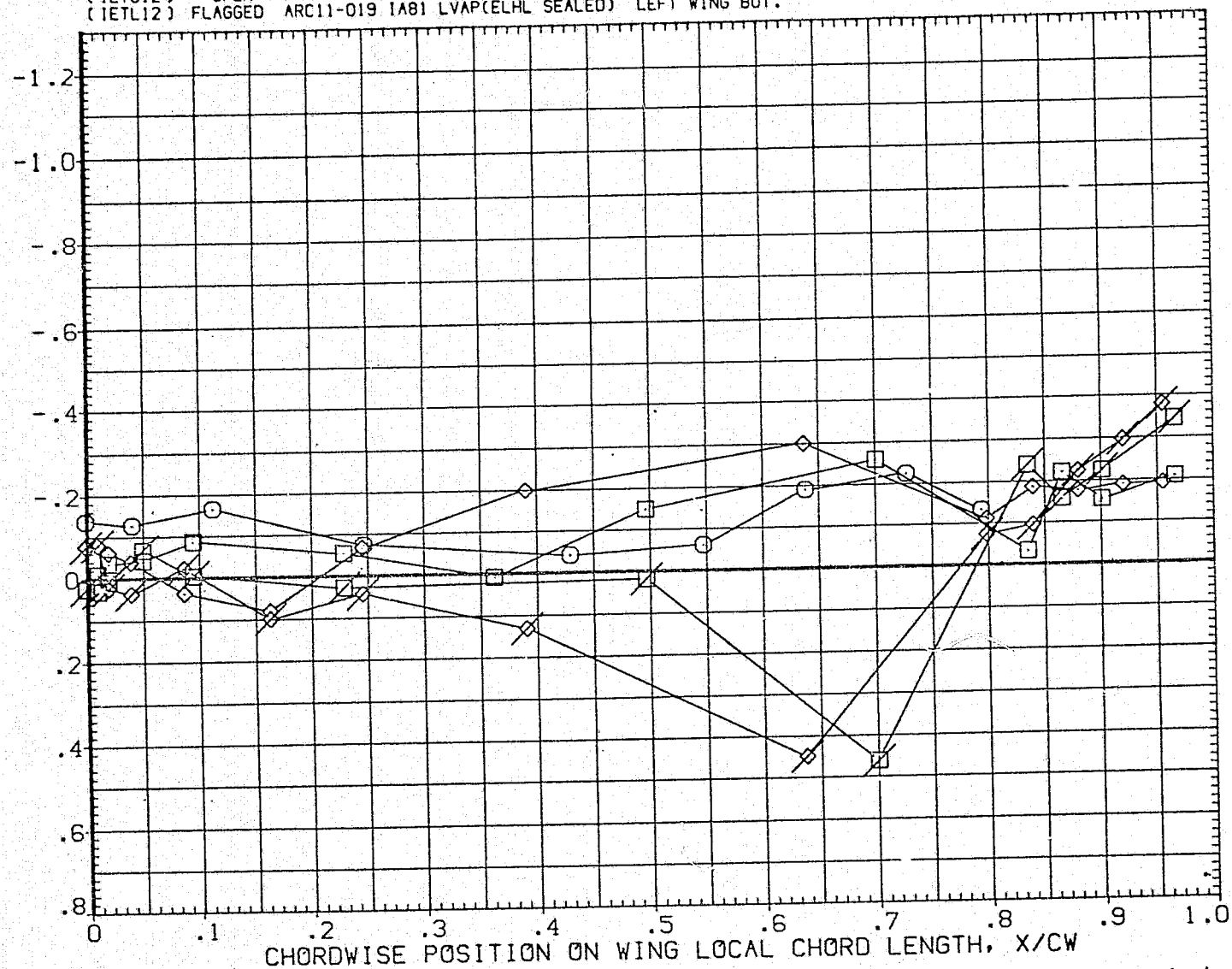


FIG. 76 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/0, SPDBRK = 0, MACH = 1.4
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SYMBOL	Y/BW	BETA0	ALPHA0
○	.427	-4.000	.000
□	.534		
◇	.673		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-IB	8.000	ELV-OB	.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU12)	OPEN	ARC11-019 [A8] LVAP(ELHL SEALED) LEFT WING TOP
(IETL12)	FLAGGED	ARC11-019 [A8] LVAP(ELHL SEALED) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

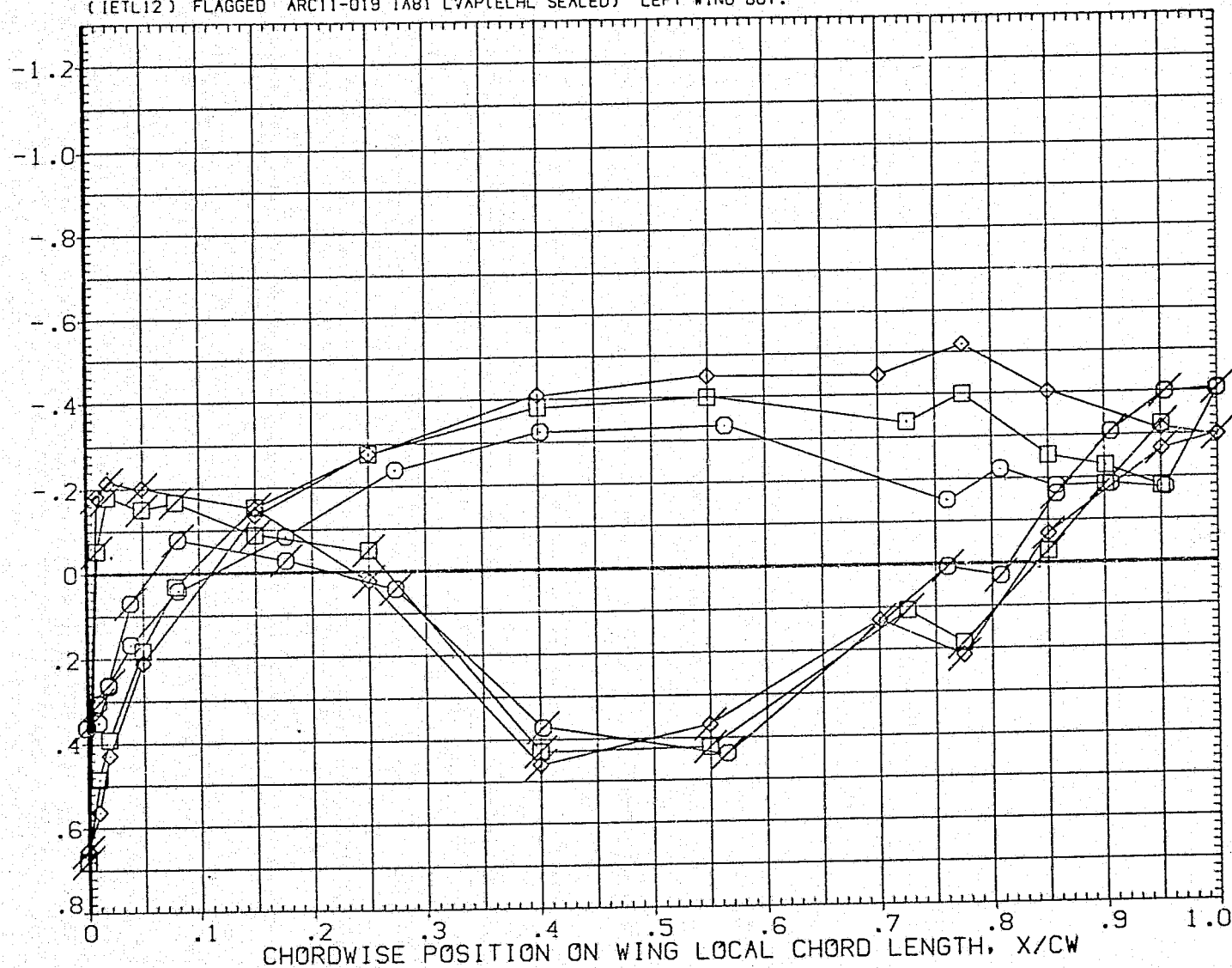


FIG. 76 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/0, SPDBRK = 0, MACH = 1.4

SYMBOL	Y/BW	BETA0	ALPHA0
○	.780	-4.000	.000
□	.887		
◇	.972		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-18	8.000	ELV-08	.000
RUDDER	.000	SPOBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU12)	OPEN	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING TOP
(IETL12)	FLAGGED	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

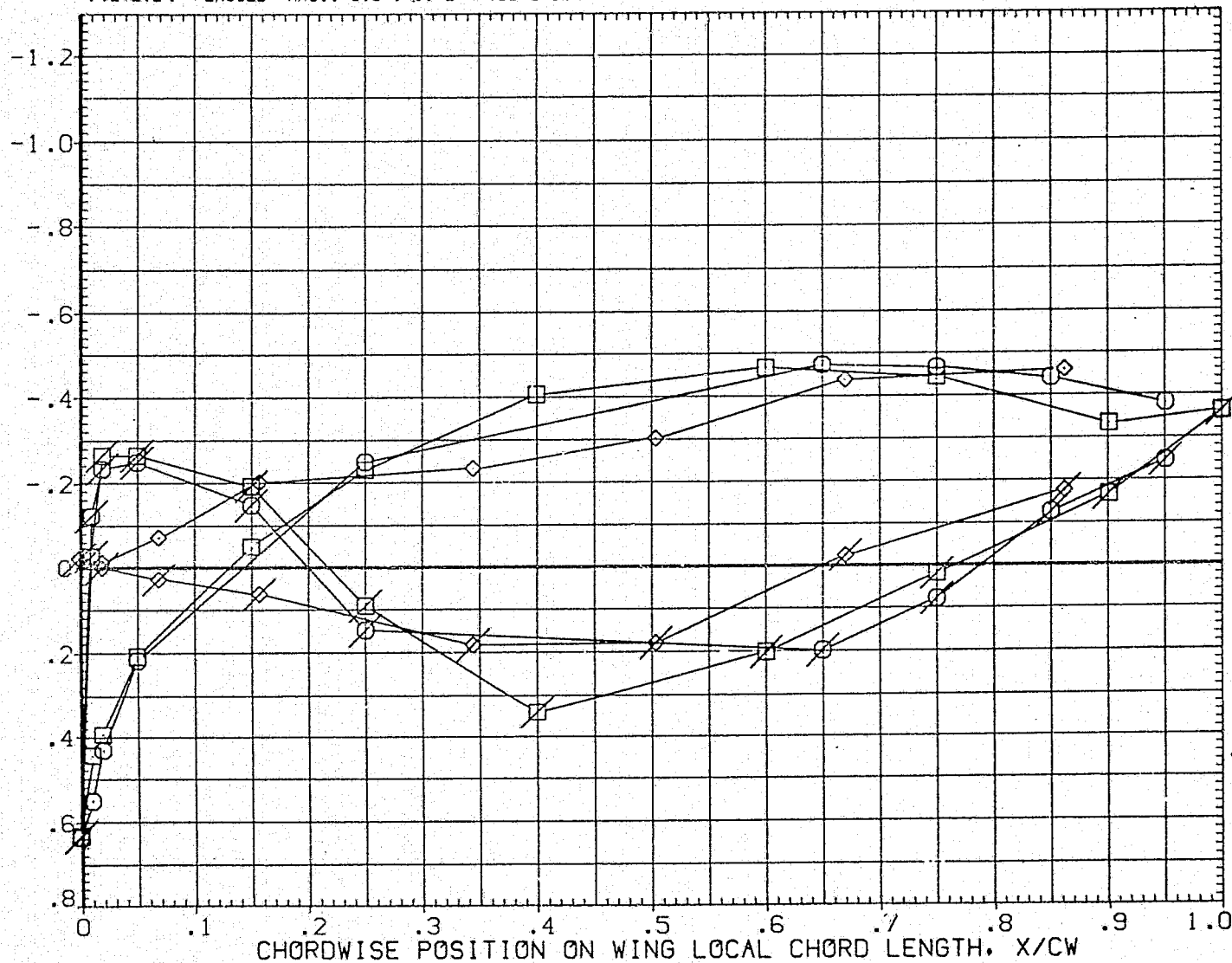


FIG. 76 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/0, SPDBRK = 0, MACH = 1.4

SYMBOL	Y/BW	BETA0	ALPHA0
○	.235	.000	.000
□	.299		
◇	.364		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-1B	8.000	ELV-0B	.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU12)	OPEN	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP
(IETL12)	FLAGGED	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

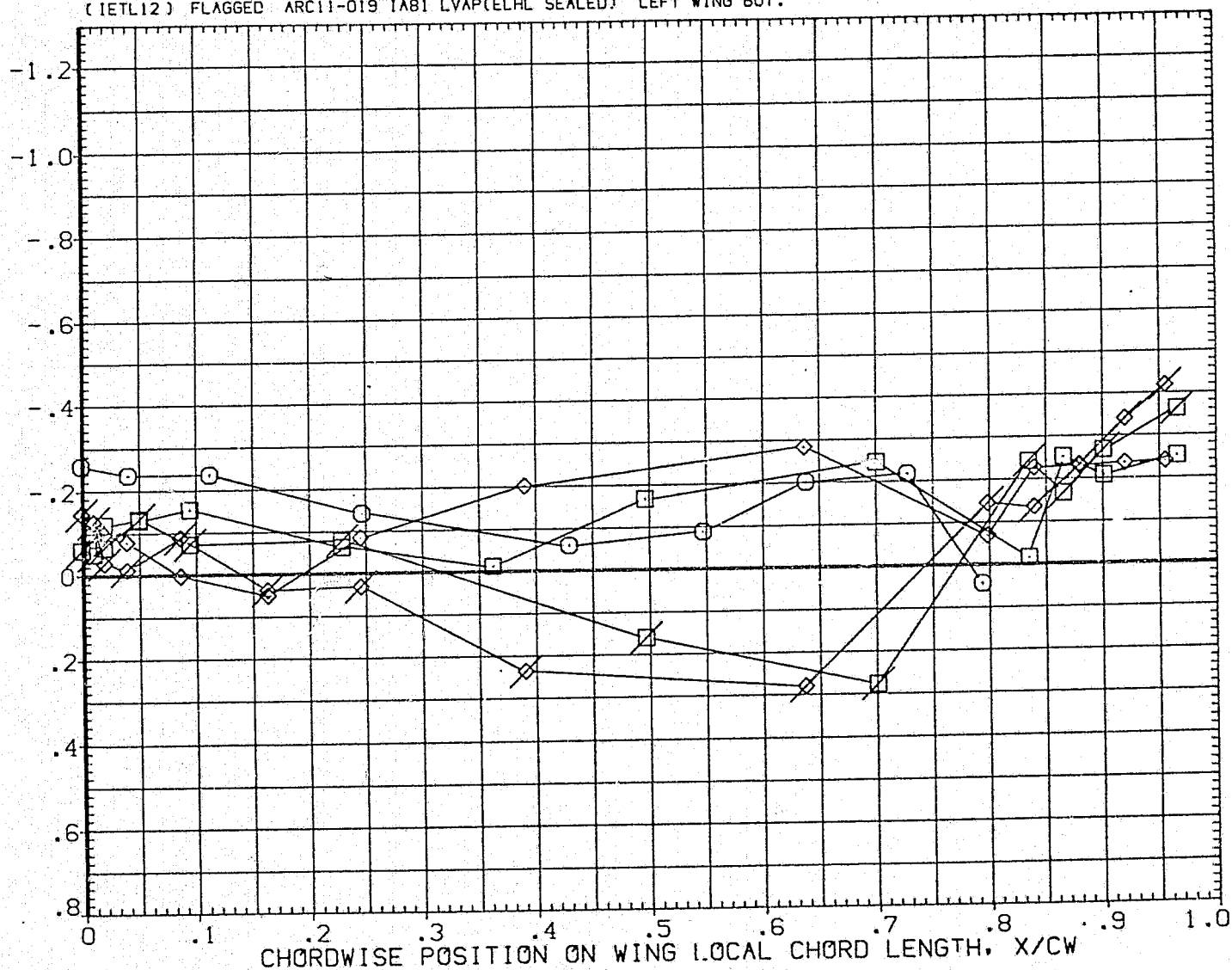


FIG. 76 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/0, SPDBRK = 0, MACH = 1.4

SYMBOL	Y/BW	BETA0	ALPHA0
○	.427	.000	.000
□	.534		
◇	.673		

PARAMETRIC VALUES			
MACH	1.400	RN-TT	2.250
ELV-1B	8.000	ELV-OB	.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU12)	OPEN	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP
(IETL12)	FLAGGED	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

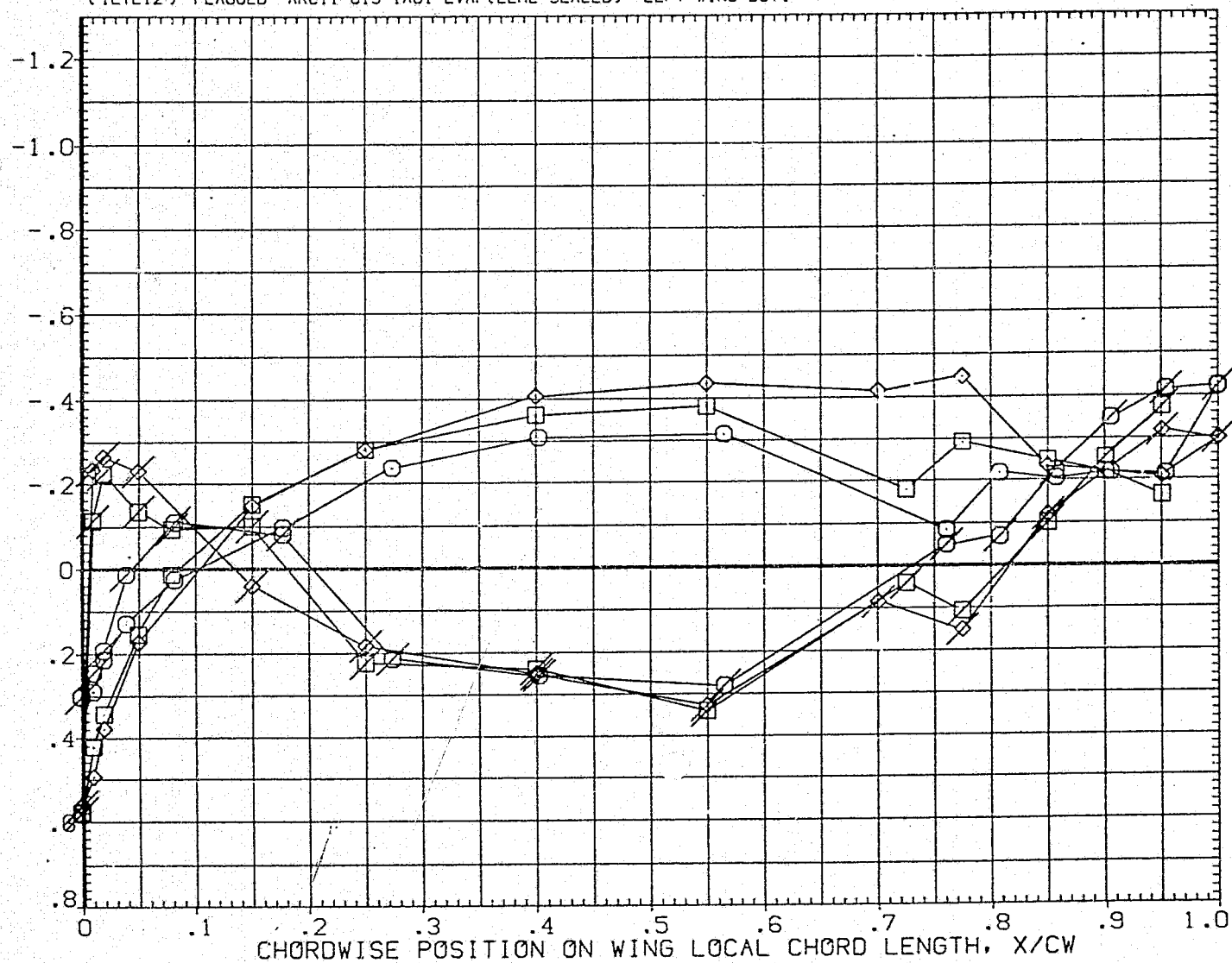


FIG. 76 WING CHORDWISE PRESS. DIST., ELEVON 1/0 = 8/0, SPDBRK = 0, MACH = 1.4

SYMBOL	Y/BW	BETA0	ALPHA0
○	.780	.000	.000
□	.887		
◇	.972		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-18	8.000	ELV-08	.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(1ETU12)	OPEN	ARC11-019 [A8] LVAP(ELHL SEALED) LEFT WING TOP
(1ETL12)	FLAGGED	ARC11-019 [A8] LVAP(ELHL SEALED) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

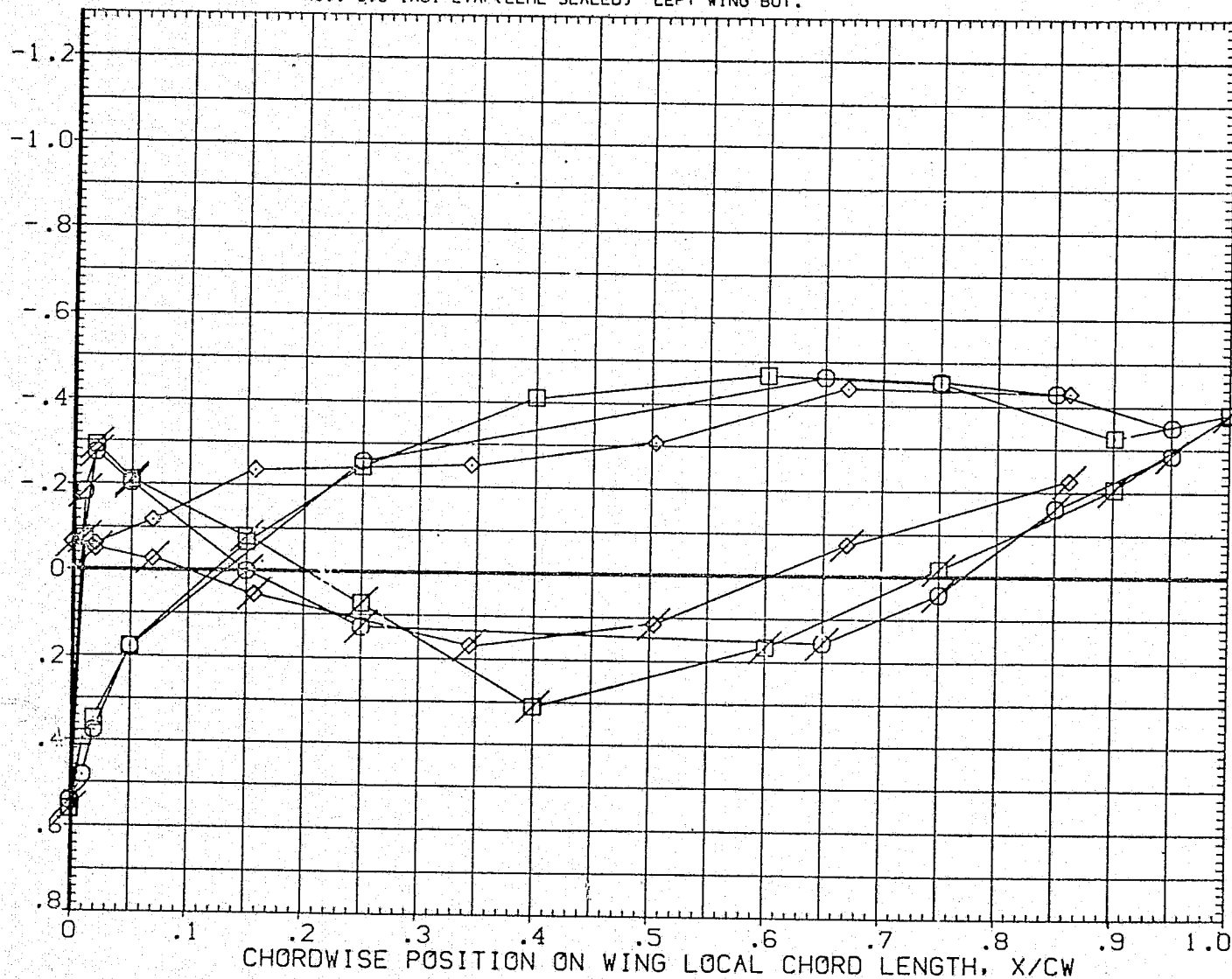


FIG. 76 WING CHORDWISE PRESS. DIST., ELEVON 1/0 = 8/0, SPDBRK = 0, MACH = 1.4

SYMBOL	Y/BW	BETA0	ALPHA0
○	.235	4.000	.000
□	.299		
◇	.364		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-IB	8.000	ELV-OB	.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU12)	OPEN	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP
(IETL12)	FLAGGED	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

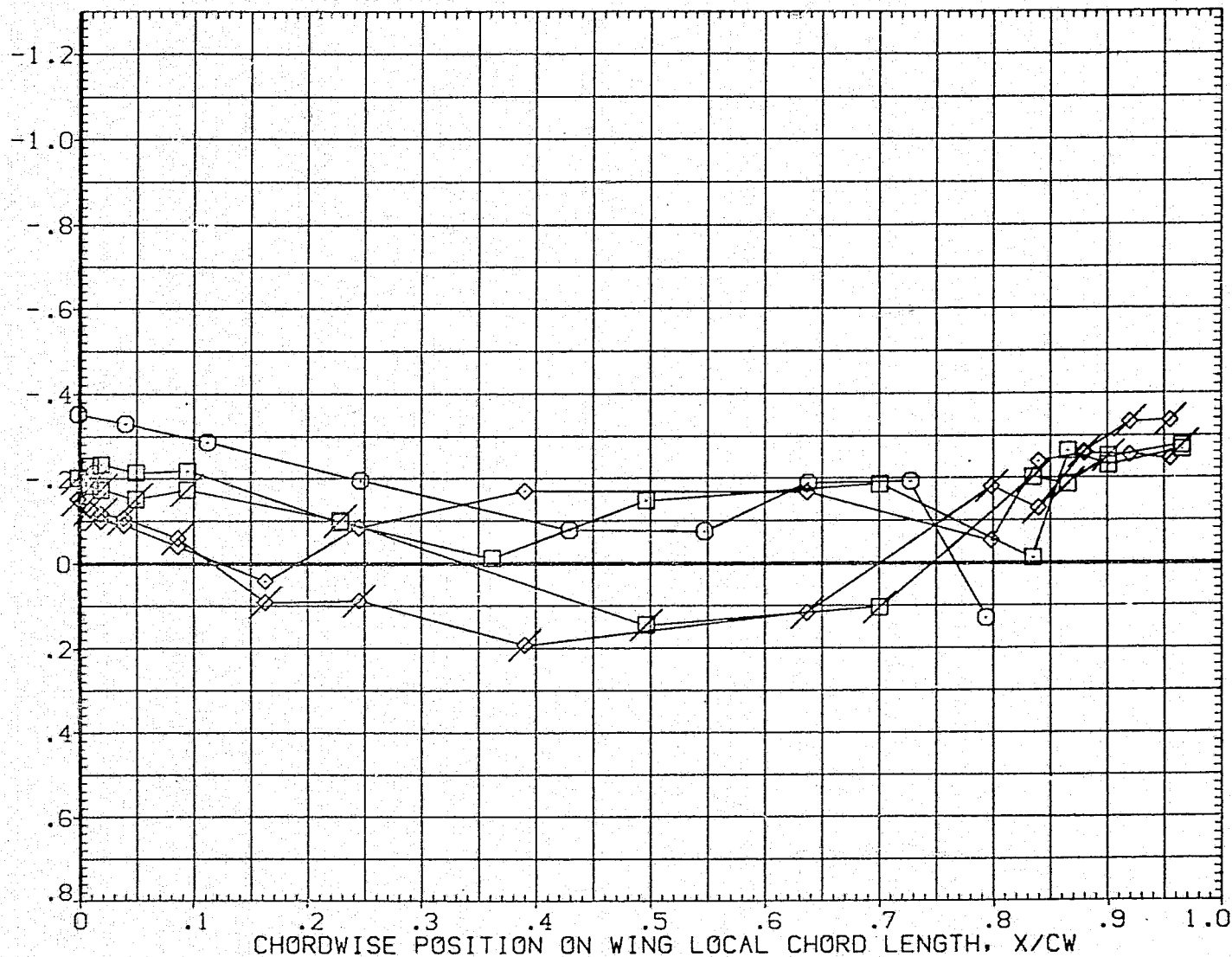


FIG. 76 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/0, SPDBRK = 0, MACH = 1.4

SYMBOL	Y/BW	BETA0	ALPHA0
○	.427	4.000	.000
□	.534		
◇	.673		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-18	8.000	ELV-09	.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU12)	OPEN	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP
(IETL12)	FLAGGED	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

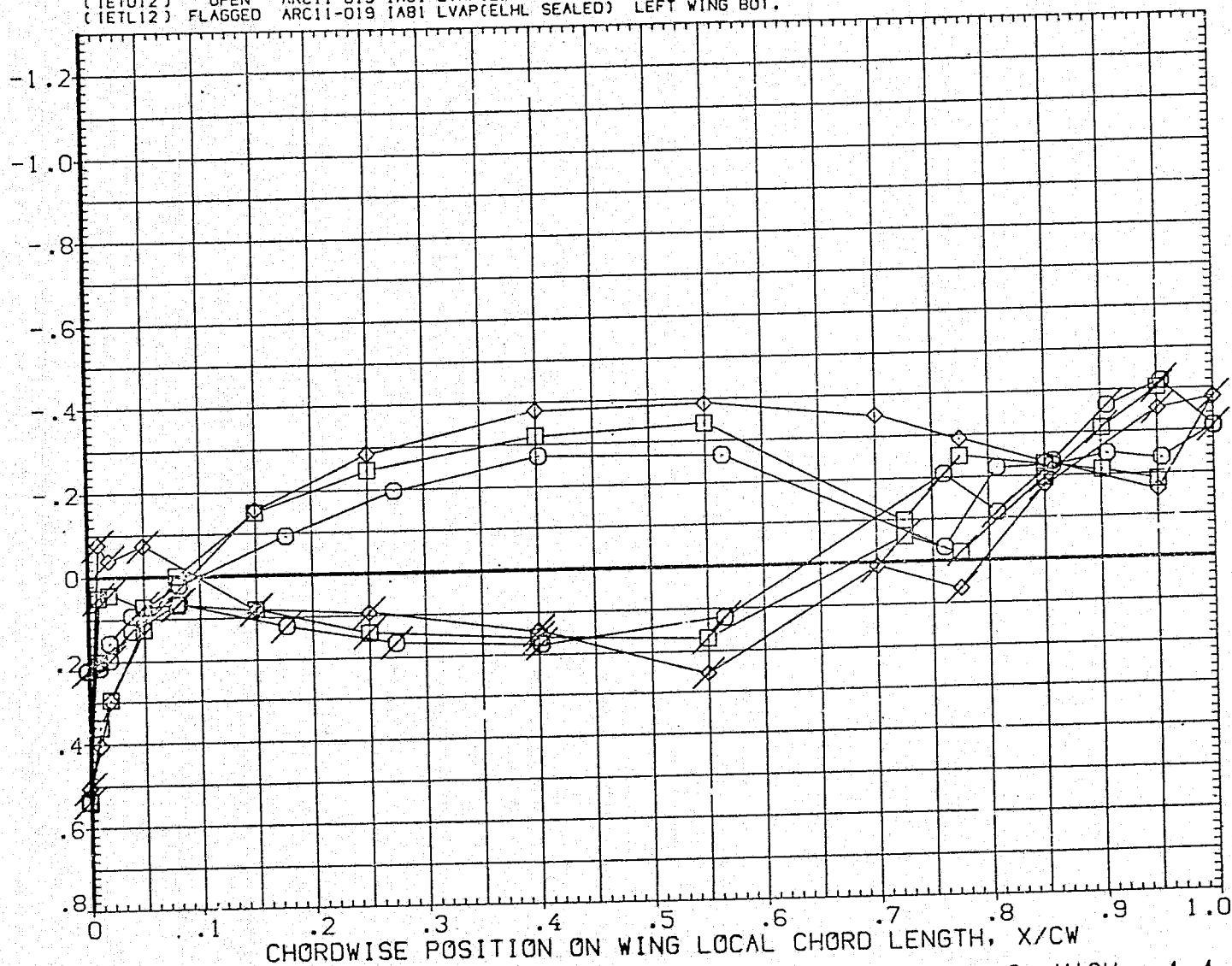


FIG. 76 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/0, SPDBRK = 0, MACH = 1.4

SYMBOL	Y/BW	BETA0	ALPHA0
○	.780	4.000	.000
□	.887		
◇	.972		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-18	8.000	ELV-CB	.000
PUDDER	.000	SPOBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(1ETU12)	OPEN	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP
(1ETL12)	FLAGGED	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.

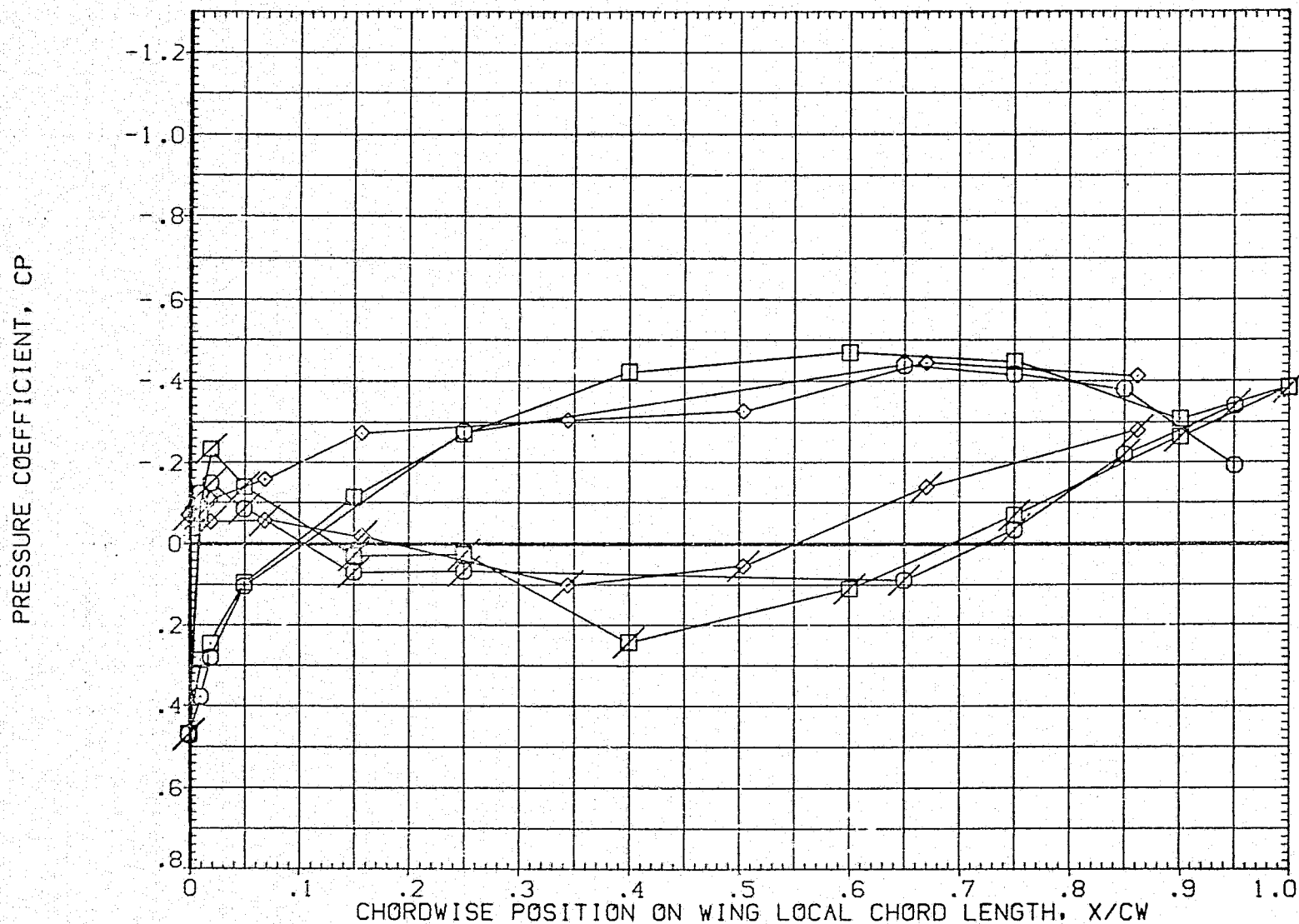


FIG. 76 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/0, SPOBRK = 0, MACH = 1.4

SYMBOL	Y/BW	BETA0	ALPHA0
○	.235	-4.000	4.000
□	.299		
◇	.364		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-1B	8.000	ELV-0B	.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU12)	OPEN	ARC11-019 1A81 LVAP(ELHI SEALED) LEFT WING TOP
(IETL12)	FLAGGED	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

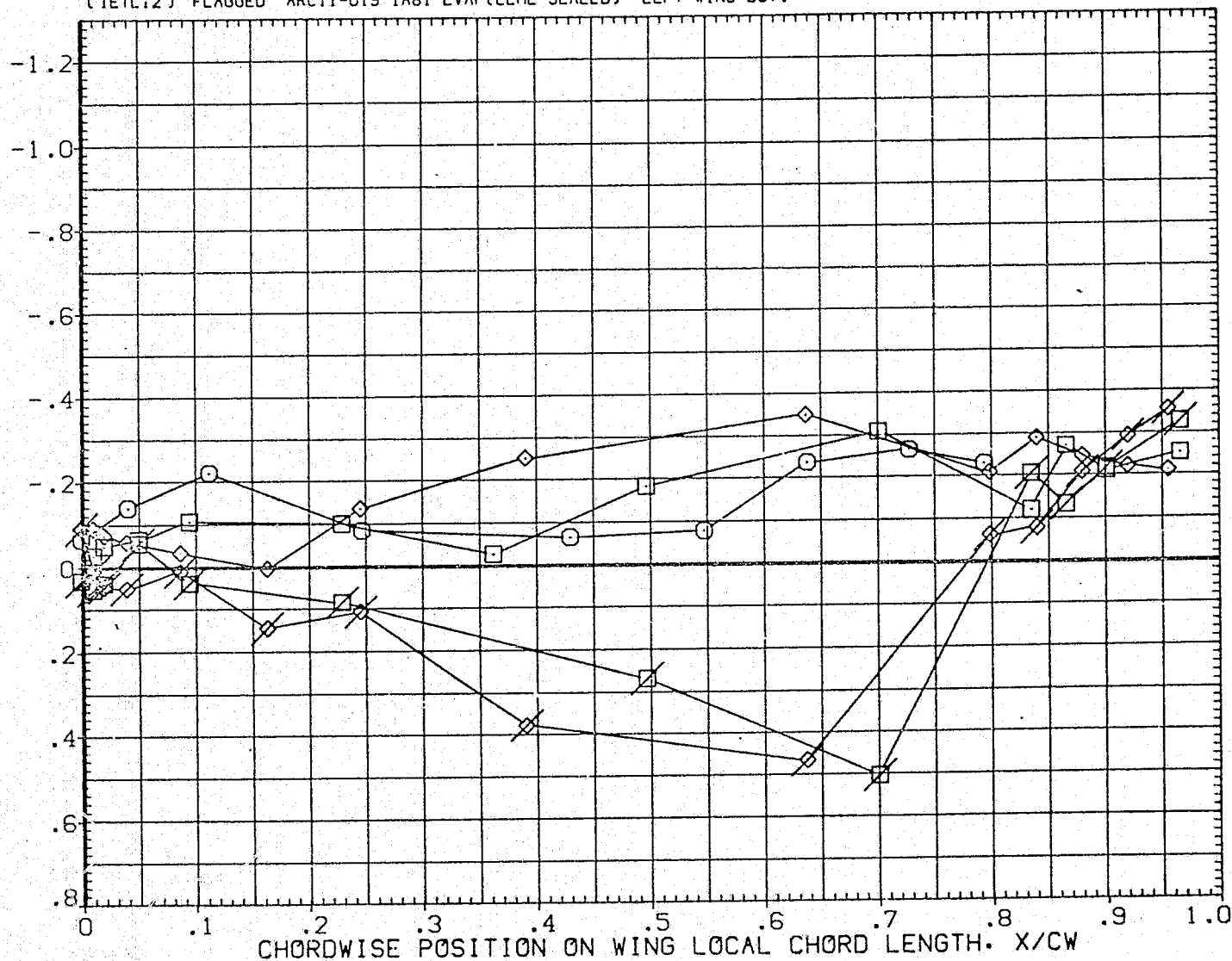


FIG. 76 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/0, SPDBRK = 0, MACH = 1.4

SYMBOL	Y/BW	BETA0	ALPHAC
○	.427	-4.000	4.000
□	.534		
◇	.673		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-18	8.000	ELV-08	.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU12)	OPEN	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP
(IETL12)	FLAGGED	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.

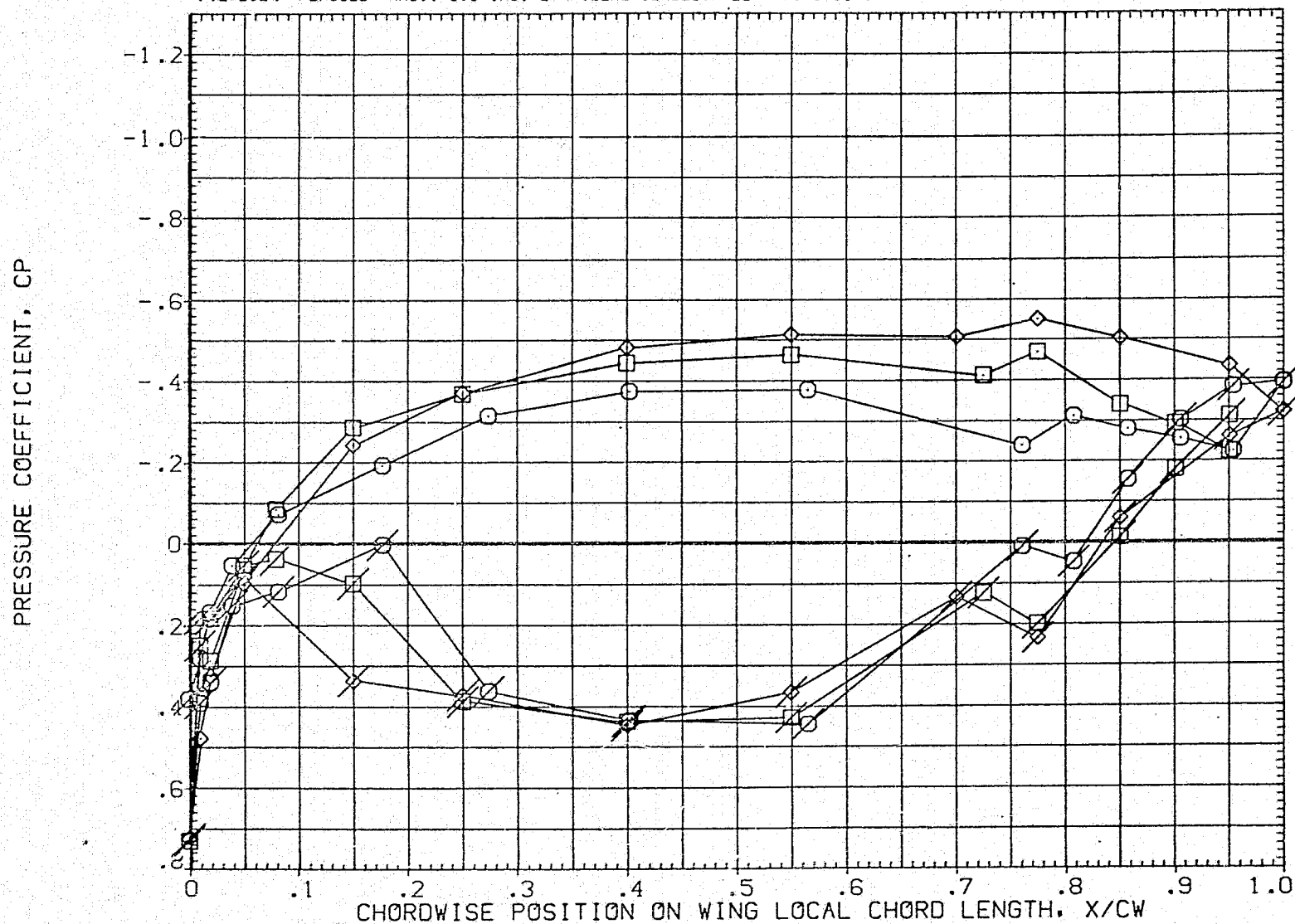


FIG. 76 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/0, SPDBRK = 0, MACH = 1.4

SYMBOL	Y/BW	BETA0	ALPHA0
○	.780	-4.000	4.000
□	.887		
◇	.972		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.150
ELV-IB	8.000	ELV-OB	.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU12)	OPEN	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP
(IETL12)	FLAGGED	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.



FIG. 76 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/0, SPDBRK = 0, MACH = 1.4

SYMBOL	Y/8V	BETA0	ALPHA0
○	.235	.000	4.000
□	.299		
◇	.364		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-1B	8.000	ELV-09	.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETUI2)	OPEN	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP
(IETL12)	FLAGGED	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.

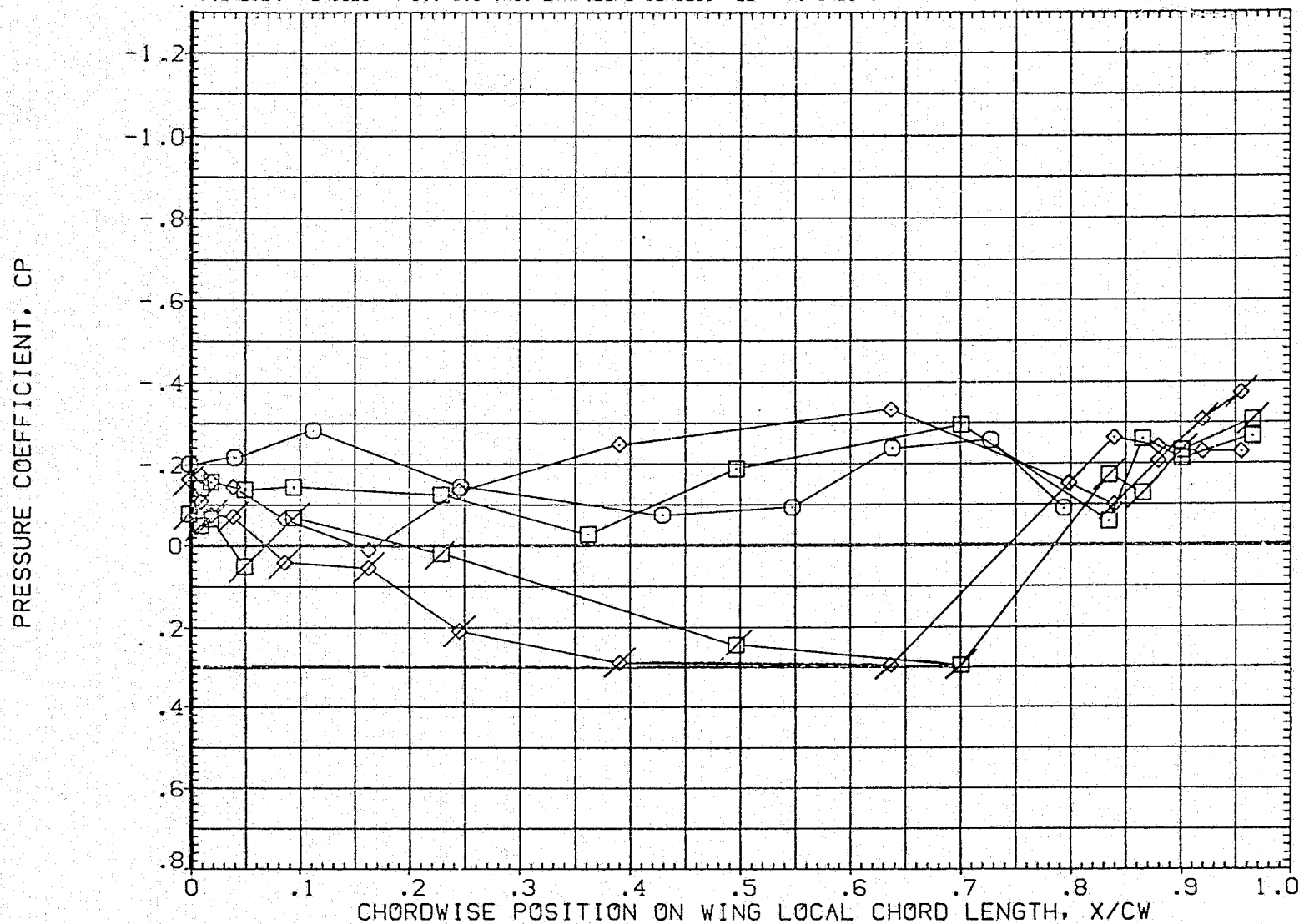


FIG. 76 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/0, SPDBRK = 0, MACH = 1.4

SYMBOL	Y/BW	BETA0	ALPHA0
○	.427	.000	4.000
□	.534		
◇	.673		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-IB	8.000	ELV-OB	.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU12)	OPEN	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP
(IETL12)	FLAGGED	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.

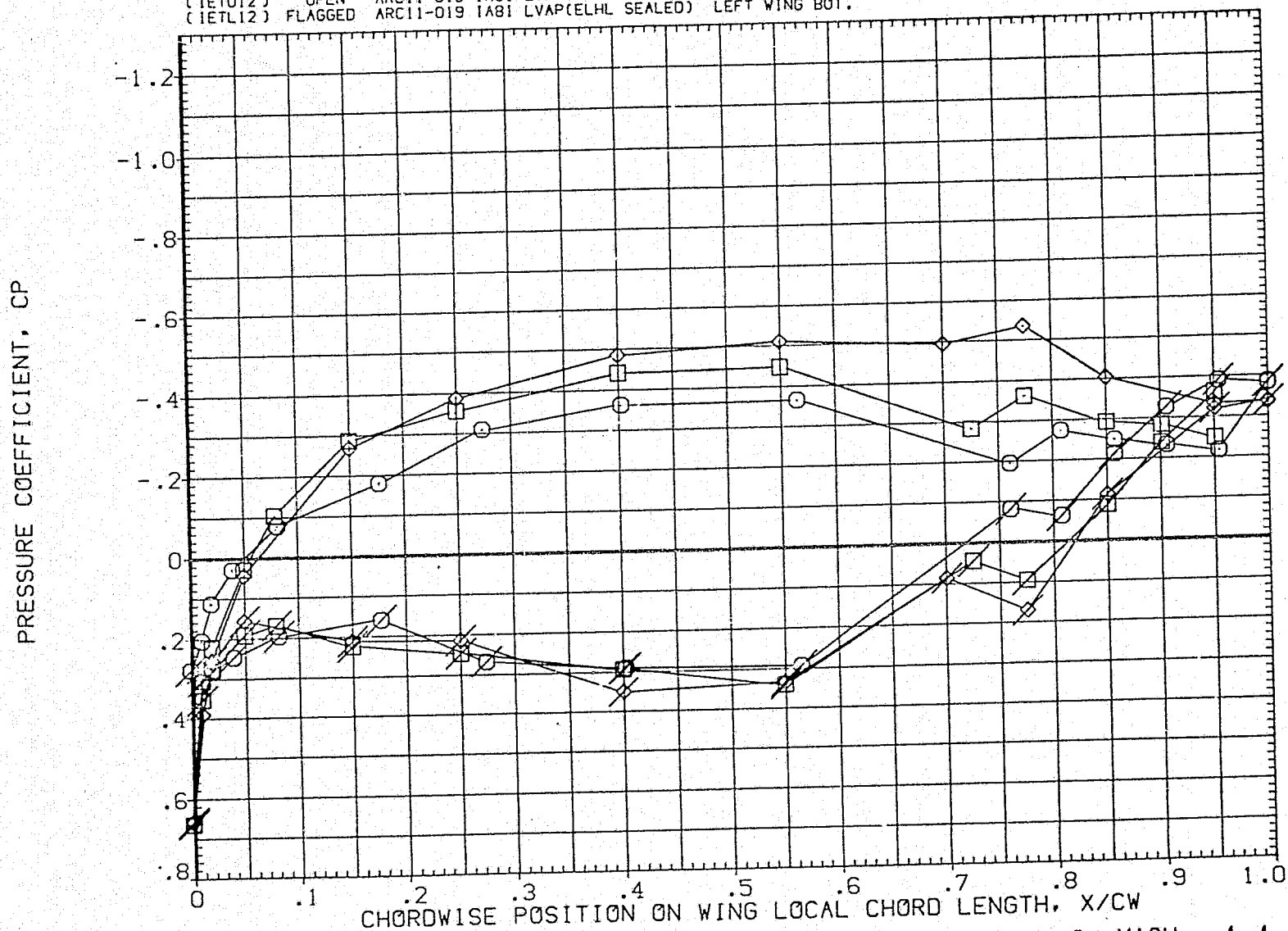


FIG. 76 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/O, SPDBRK = 0, MACH = 1.4

SYMBOL	Y/BW	BETA0	ALPHA0
○	.780	.000	4.000
□	.887		
◇	.972		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-18	8.000	ELV-08	.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU12)	OPEN	ARC11-C19 1A81 LVAP(ELHL SEALED) LEFT WING TOP
(IETL12)	FLAGGED	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.

PRESSURE COEFFICIENT, CP

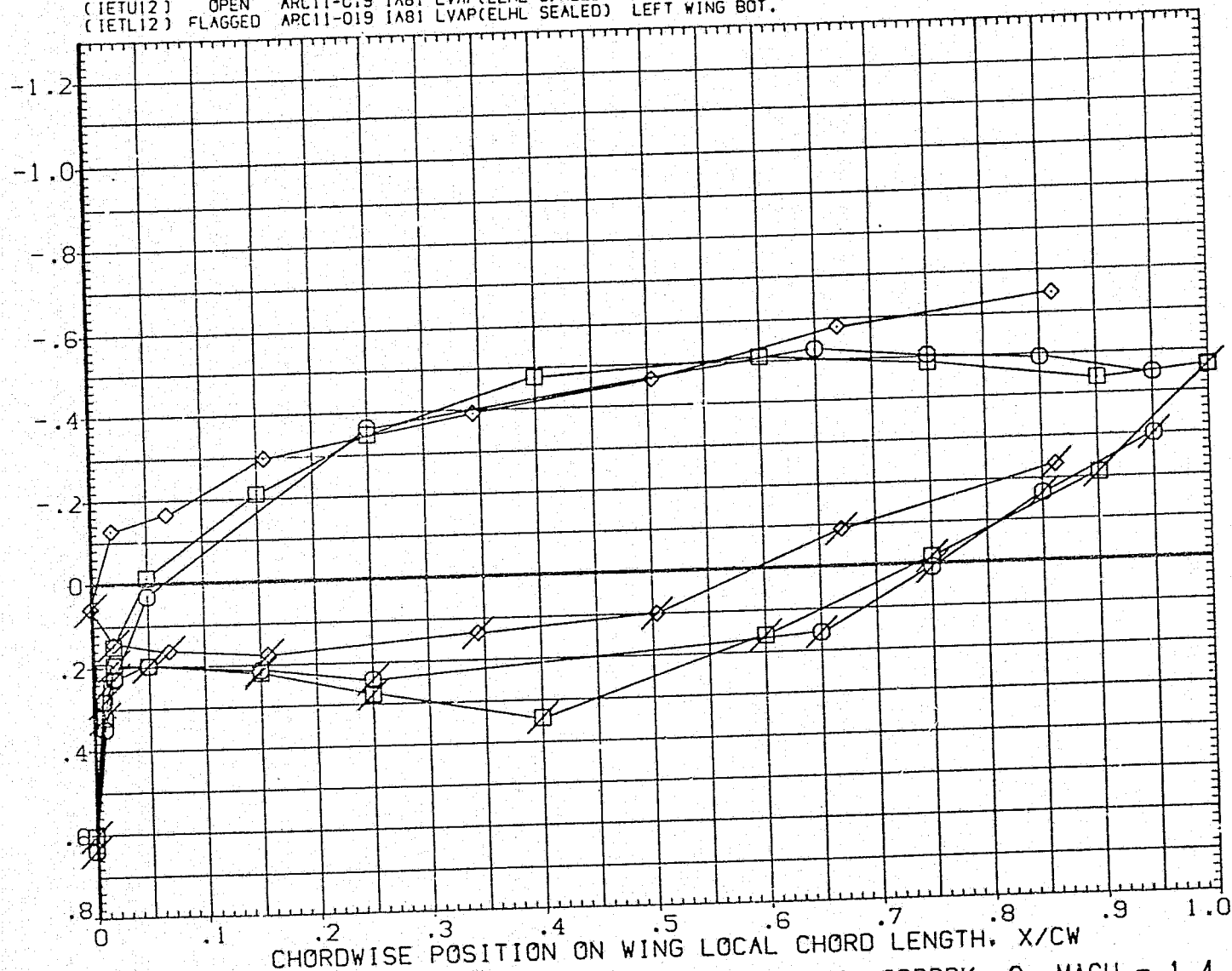


FIG. 76 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/0, SPDBRK = 0, MACH = 1.4

SYMBOL	Y/BW	BETA0	ALPHA0
○	.235	4.000	4.000
□	.299		
◇	.364		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-1B	8.000	ELV-0B	.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(1ETU12)	OPEN	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TCP
(1ETL12)	FLAGGED	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.

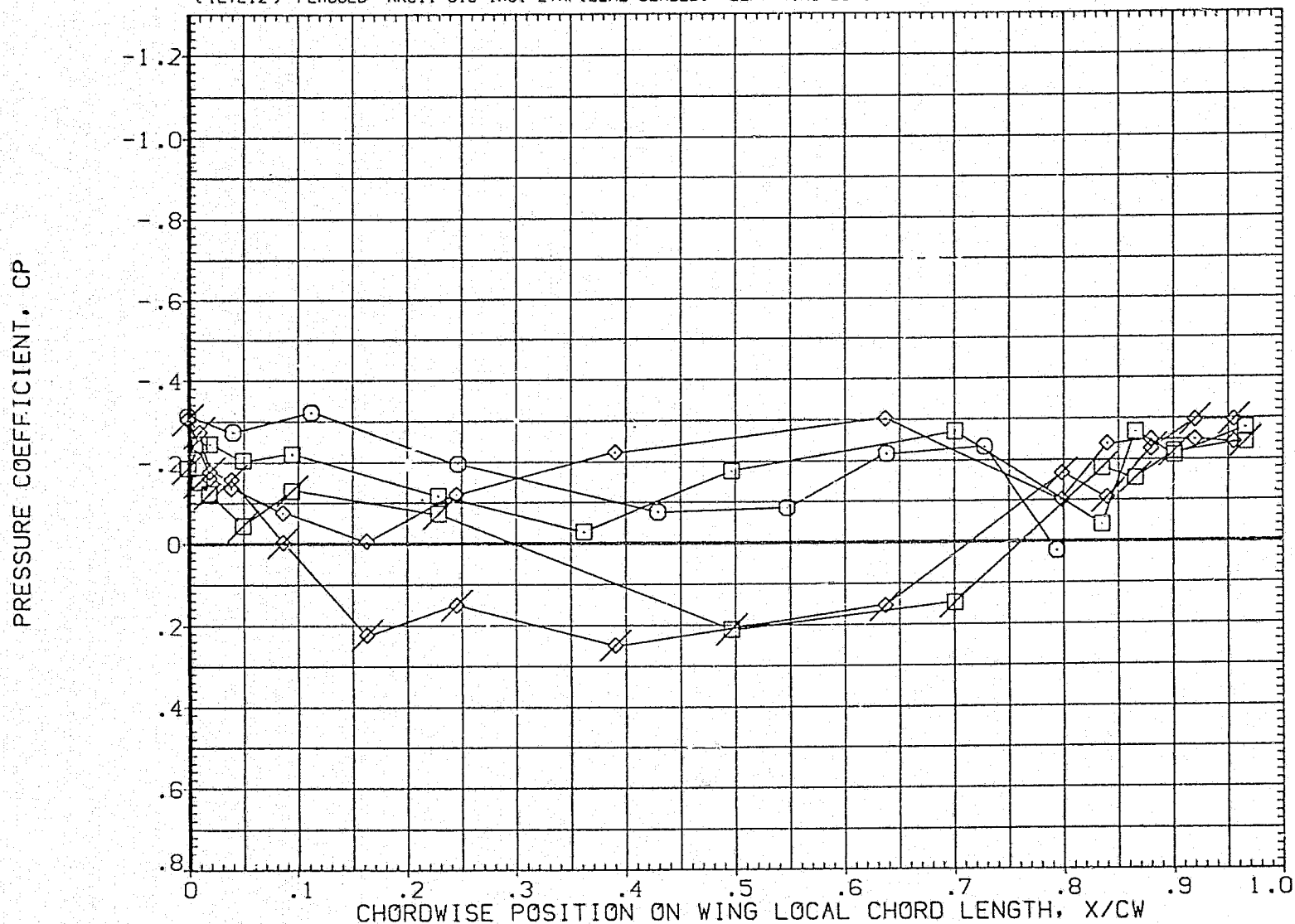


FIG. 76 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/0, SPDBRK = 0, MACH = 1.4

SYMBOL	Y/BW	BETA0	ALPHA0
○	.427	4.000	4.000
□	.534		
◇	.673		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-1B	8.000	ELV-0B	.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU12)	OPEN	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP
(IETL12)	FLAGGED	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.

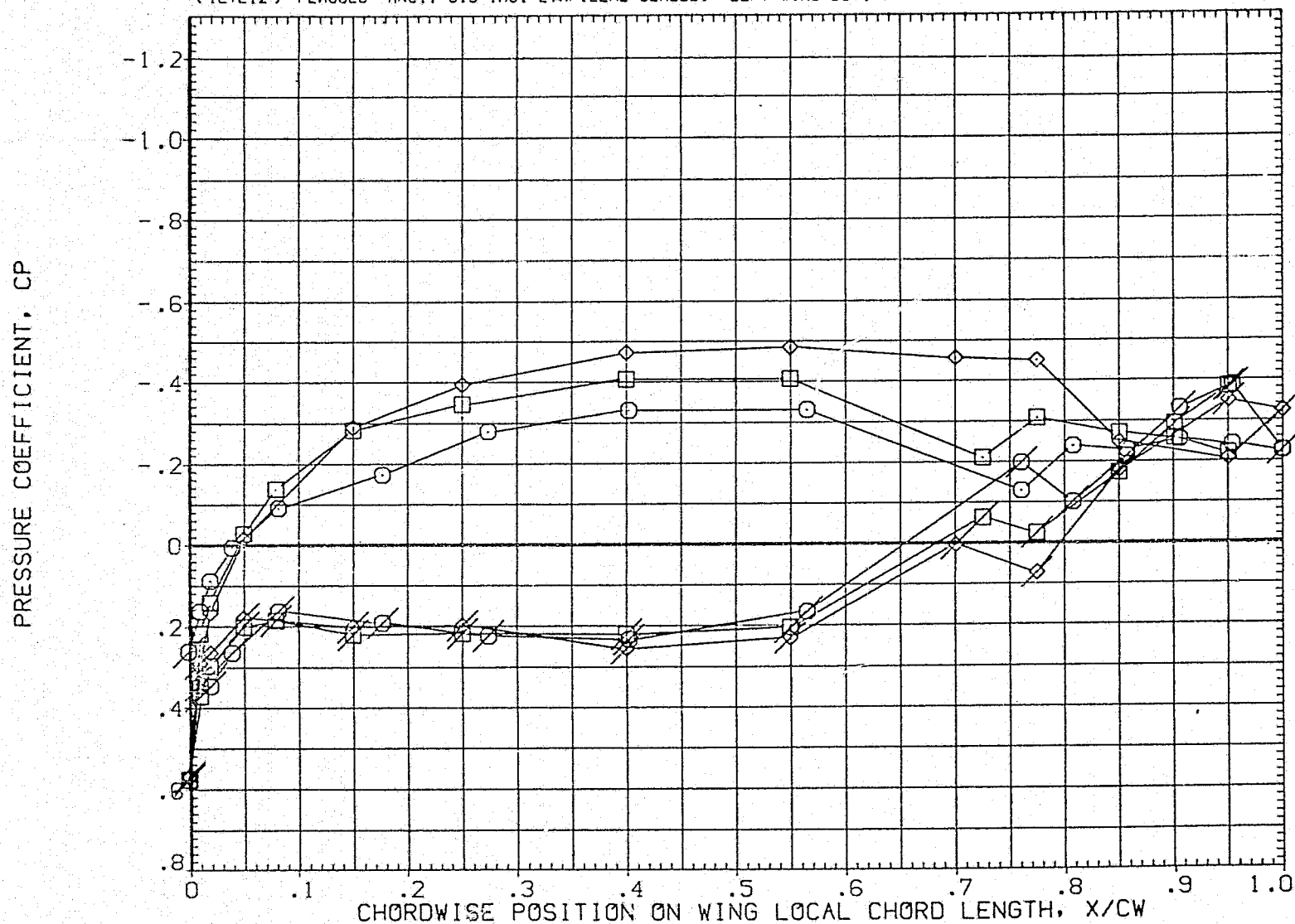


FIG. 76 WING CHORDWISE PRESS. DIST., ELEVON 1/0 = 8/0, SPDBRK = 0, MACH = 1.4

SYMBOL	Y/BV	BETA0	ALPHA0
○	.780	4.000	4.000
□	.887		
◇	.972		

PARAMETRIC VALUES			
MACH	1.400	RN/FT	2.250
ELV-IB	8.000	ELV-OB	.000
RUDDER	.000	SPDBRK	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(IETU12)	OPEN	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP
(IETL12)	FLAGGED	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.

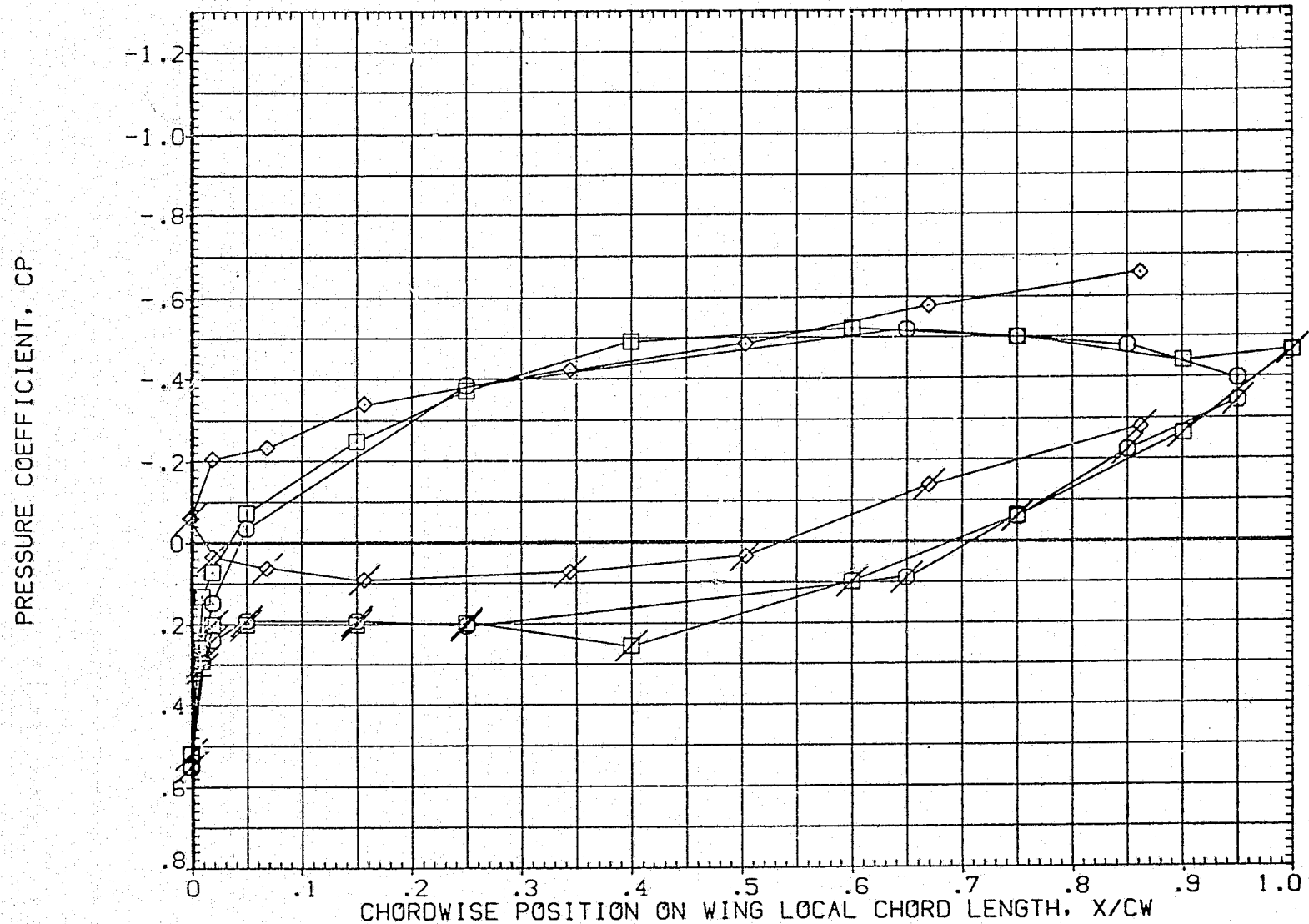


FIG. 76 WING CHORDWISE PRESS. DIST., ELEVON I/O = 8/0, SPDBRK = 0, MACH = 1.4

ARC11-019 IA81 LVAP(SBHL SEALED) LEFT VERTICAL (IETVC2)

SYMBOL
○
□
◇
△
▽

Z/BV
.158
.317
.602
.839
.925

ALPHA0
-6.000

BETA0
.000

PARAMETRIC VALUES

MACH .600 RN/FT 3.200
ELV-1B .000 ELV-0B .000
RUDDER .000 SPDBRK 55.000

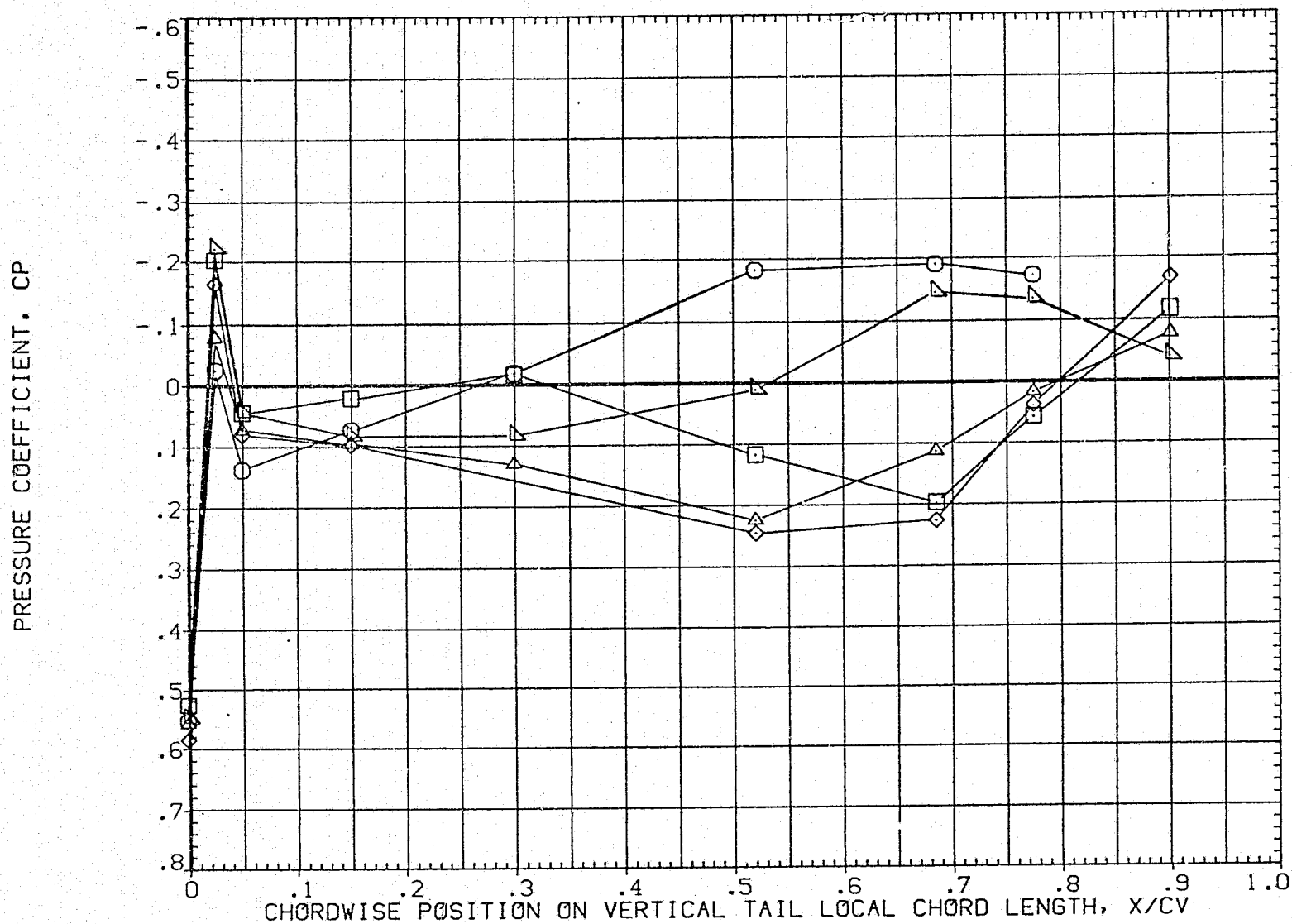


FIG. 77 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=0/0, SPDBRK=55, MACH= 0.6

ARC11-019 1A81 LVAP(SBHL SEALED) LEFT VERTICAL (IETV02)

SYMBOL	Z/BV	ALPHA0	BETA0
○	.158	-4.000	.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES-			
MACH	.600	RN/FT	3.200
ELV-IB	.000	ELV-CB	.000
RUDDER	.000	SPDBRK	55.000

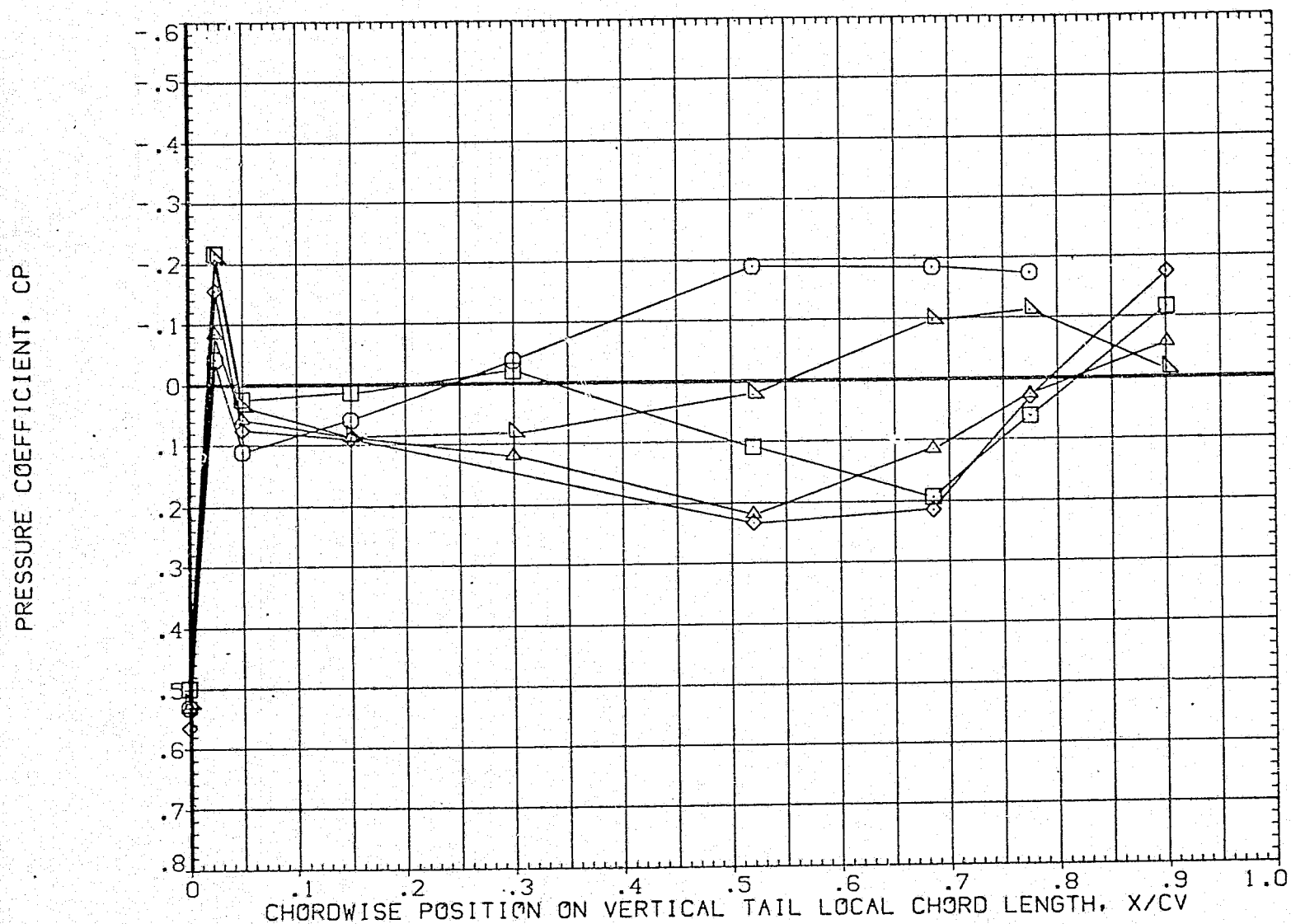


FIG. 77 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=0/0, SPDBRK=55, MACH= 0.6

ARC11-019 IA81 LVAP(SBHL SEALED) LEFT VERTICAL (IETV02)

SYMBOL	Z/BV	ALPHA0	BETA0
○	.158	-2.000	.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	.600	RN/FT	3.200
ELV-1B	.000	ELV-0B	.000
RUDDER	.000	SPDBRK	55.000

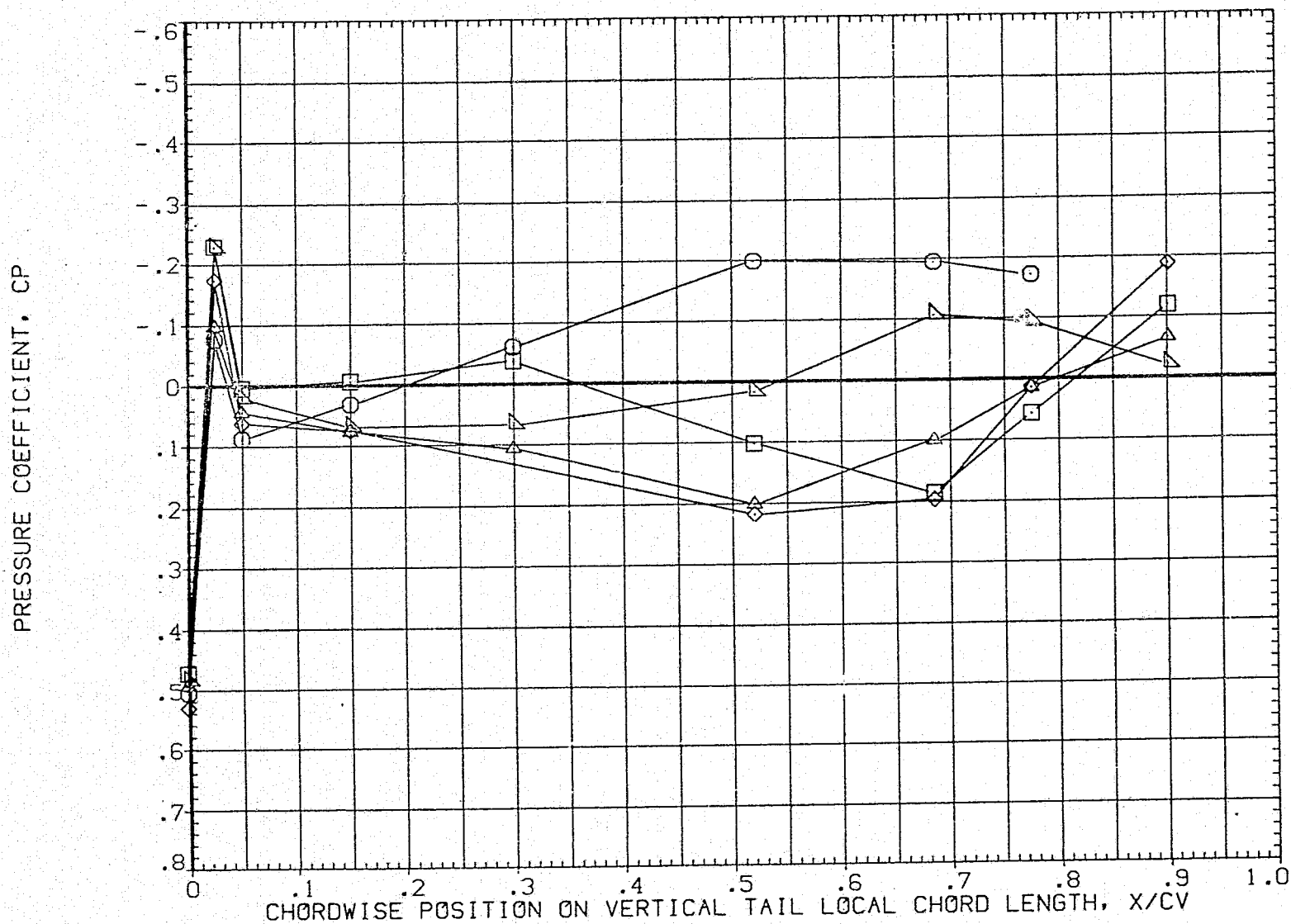


FIG. 77 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=0/0, SPDBRK=55, MACH= 0.6

ARC11-019 1A81 LVAP(SBHL SEALED) LEFT VERTICAL (IETV02)

SYMBOL	Z/BV	ALPHA0	BETA0
○	.158	.000	.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	.600	RN/FT	3.200
ELV-1B	.000	ELV-0B	.000
RUDDER	.000	SPDRK	55.000

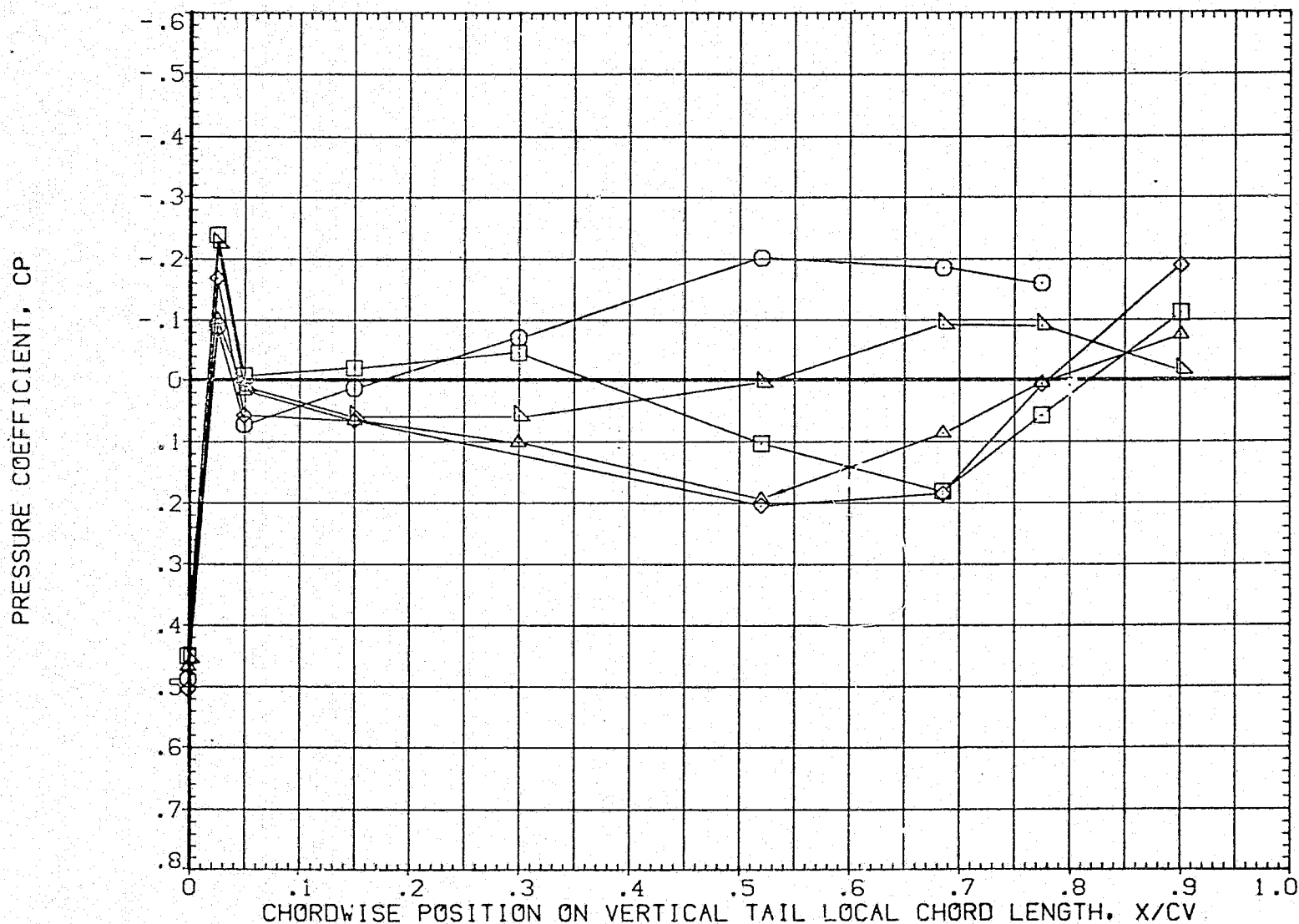


FIG. 77 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=0/0, SPDRK=55, MACH= 0.6

ARC11-019 IA81 LVAP(SBHL SEALED) LEFT VERTICAL (IETV02)

SYMBOL	Z/BV	ALPHA0	BETA0
○	.158	2.000	.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	.600	RN/FT	3.200
ELV-19	.000	ELV-08	.000
RUDDER	.000	SPDBRK	55.000

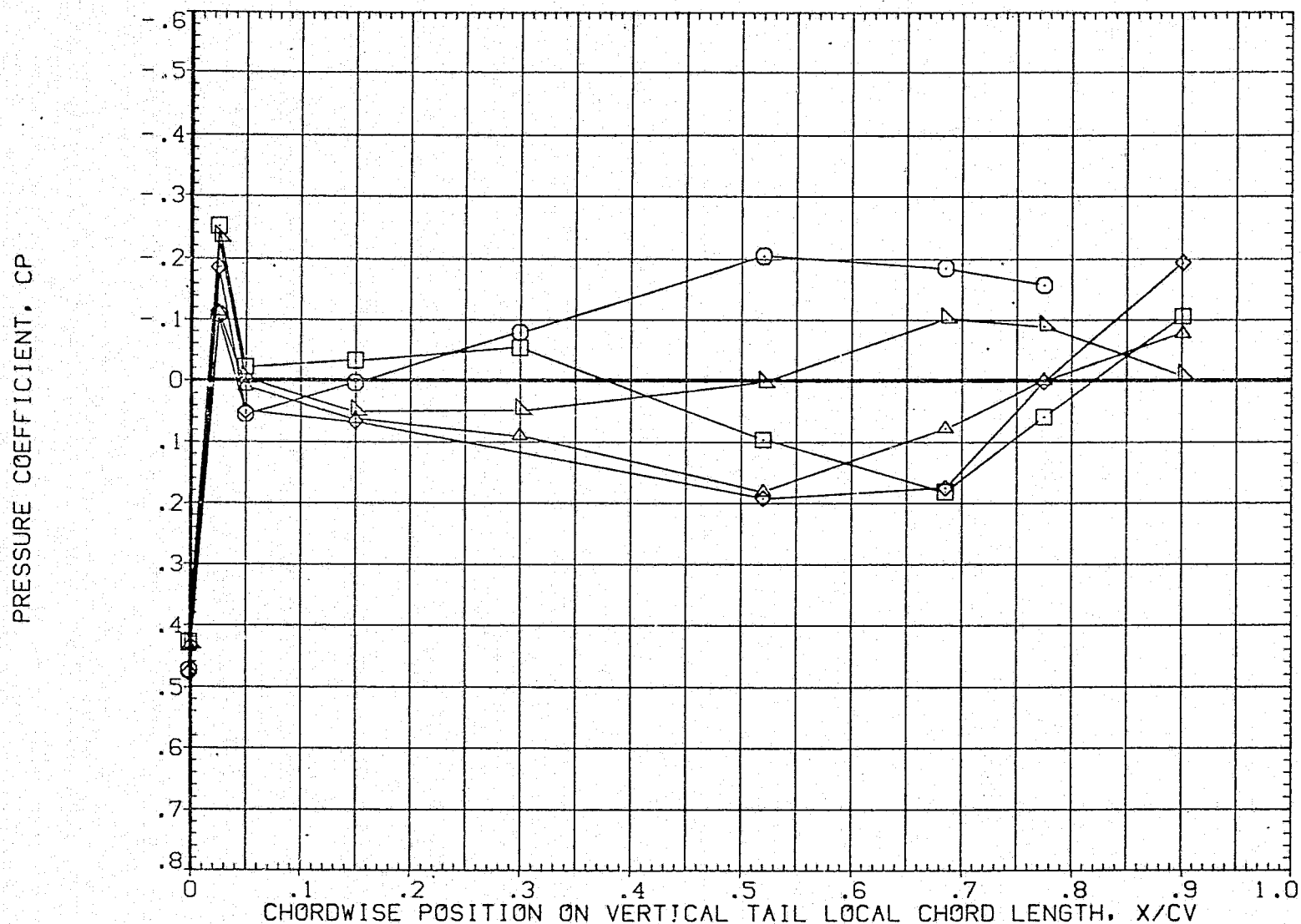


FIG. 77 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=0/0, SPDBRK=55, MACH= 0.6

ARC11-019 IA81 LVAP(SBHL SEALED) LEFT VERTICAL (IETV02)

SYMBOL
○
□
◇
△
▽

Z/BV
.158
.317
.602
.839
.925

ALPHA0
4.000

BETA0
.000

PARAMETRIC VALUES

MACH	.600	RN/FT	3.200
ELV-18	.000	ELV-08	.000
RUDDER	.000	SPDBRK	55.000

PRESSURE COEFFICIENT, CP

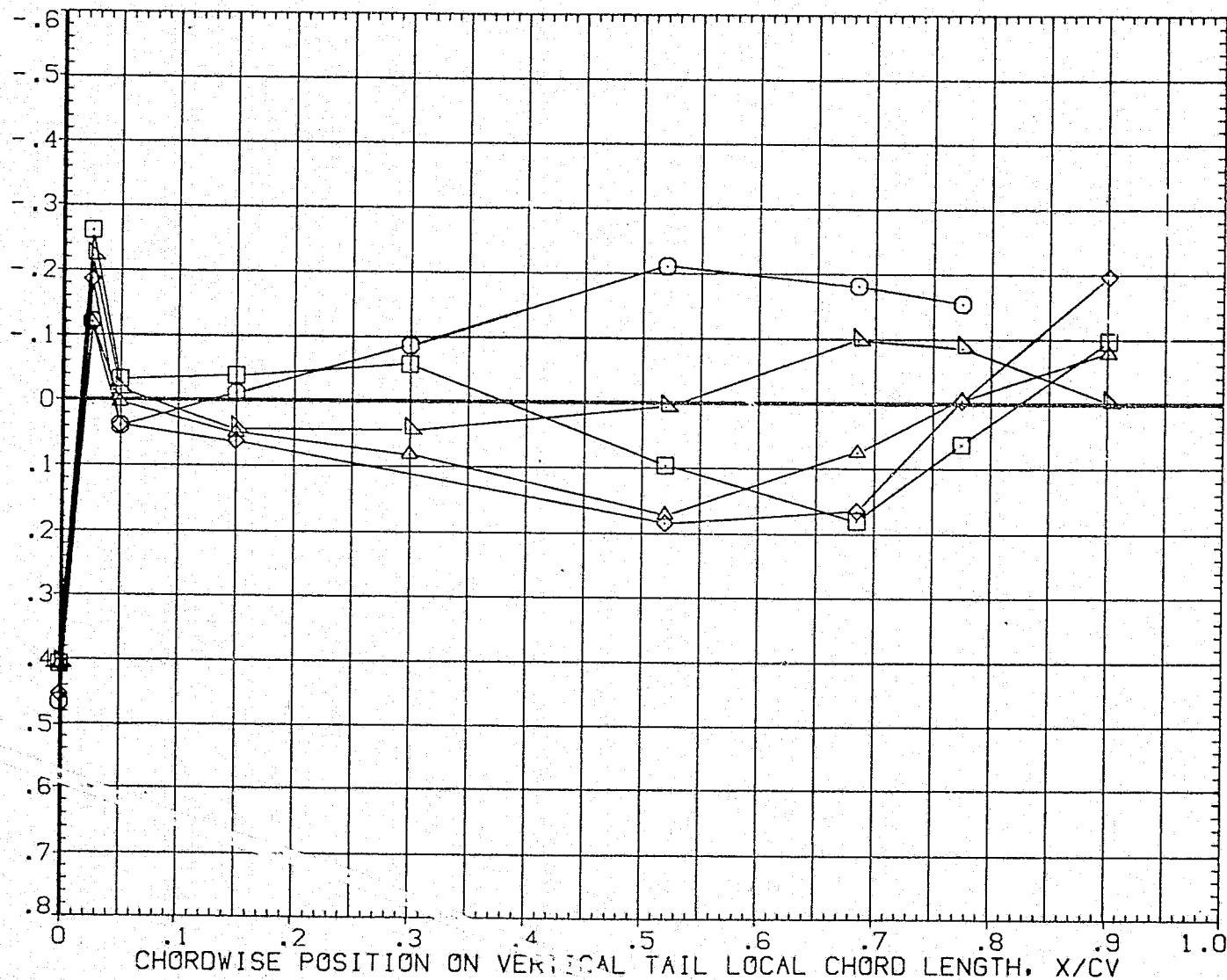


FIG. 77 VERT. TAIL CHORDWISE PRESS. DIST. ELVON I/O=0/0, SPDBRK=55, MACH= 0.6

ARC11-019 1A81 LVAP(SBHL SEALED) LEFT VERTICAL (IETV02)

SYMBOL	Z/BV	ALPHA0	BETA0
○	.158	6.000	.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	.600	RN/FT	3.200
ELV-1B	.000	ELV-08	.000
RUDDER	.000	SPDBRK	55.000

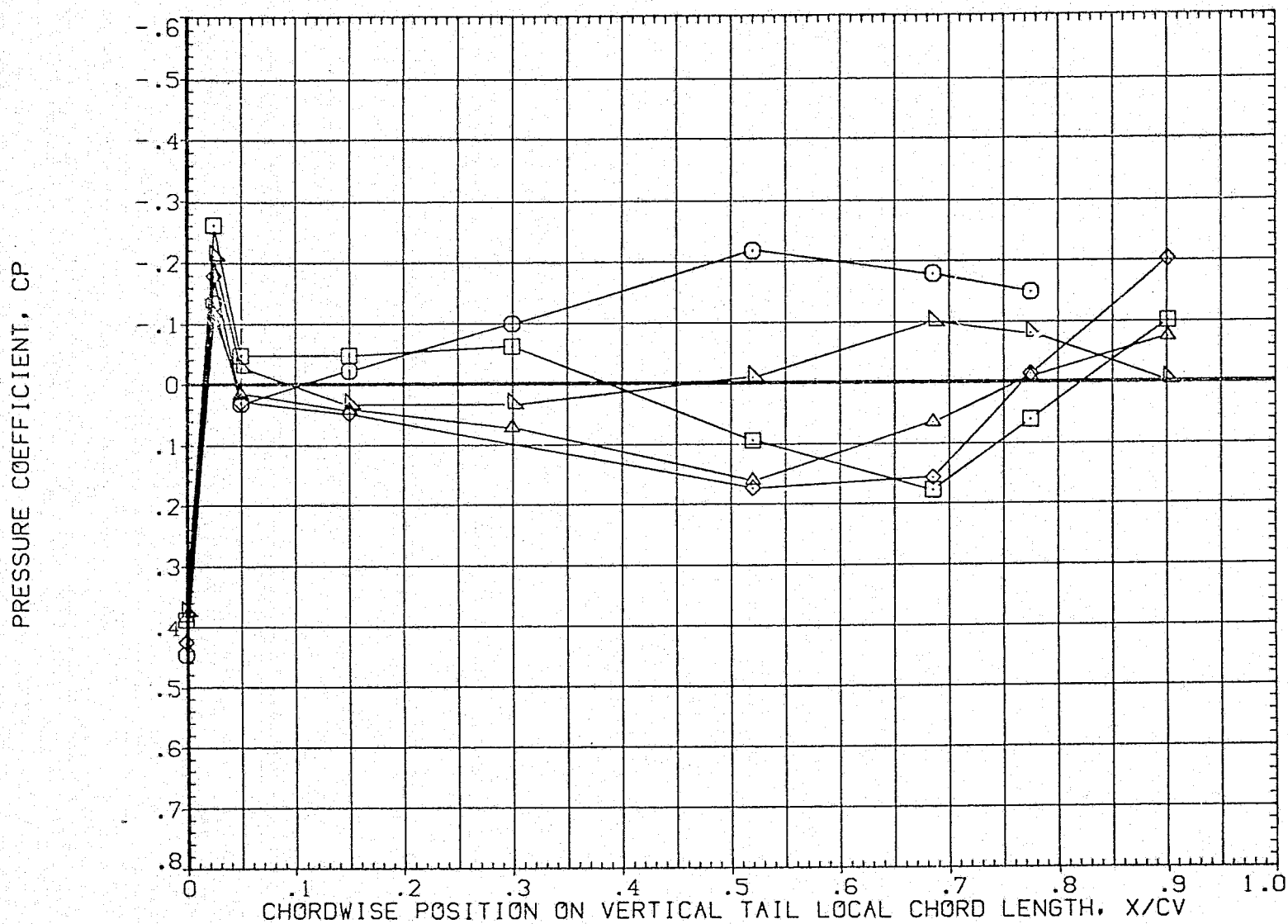


FIG. 77 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=0/0, SPDBRK=55, MACH= 0.6

ARC11-019 IA81 LVAP(SBHL SEALED) LEFT VERTICAL (IETV03)

SYMBOL	Z/BV	ALPHA0	BETA0
○	.158	-6.000	.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	.900	RN/FT	3.500
ELV-18	.000	ELV-08	.000
RUDDER	.000	SPDBRK	55.000

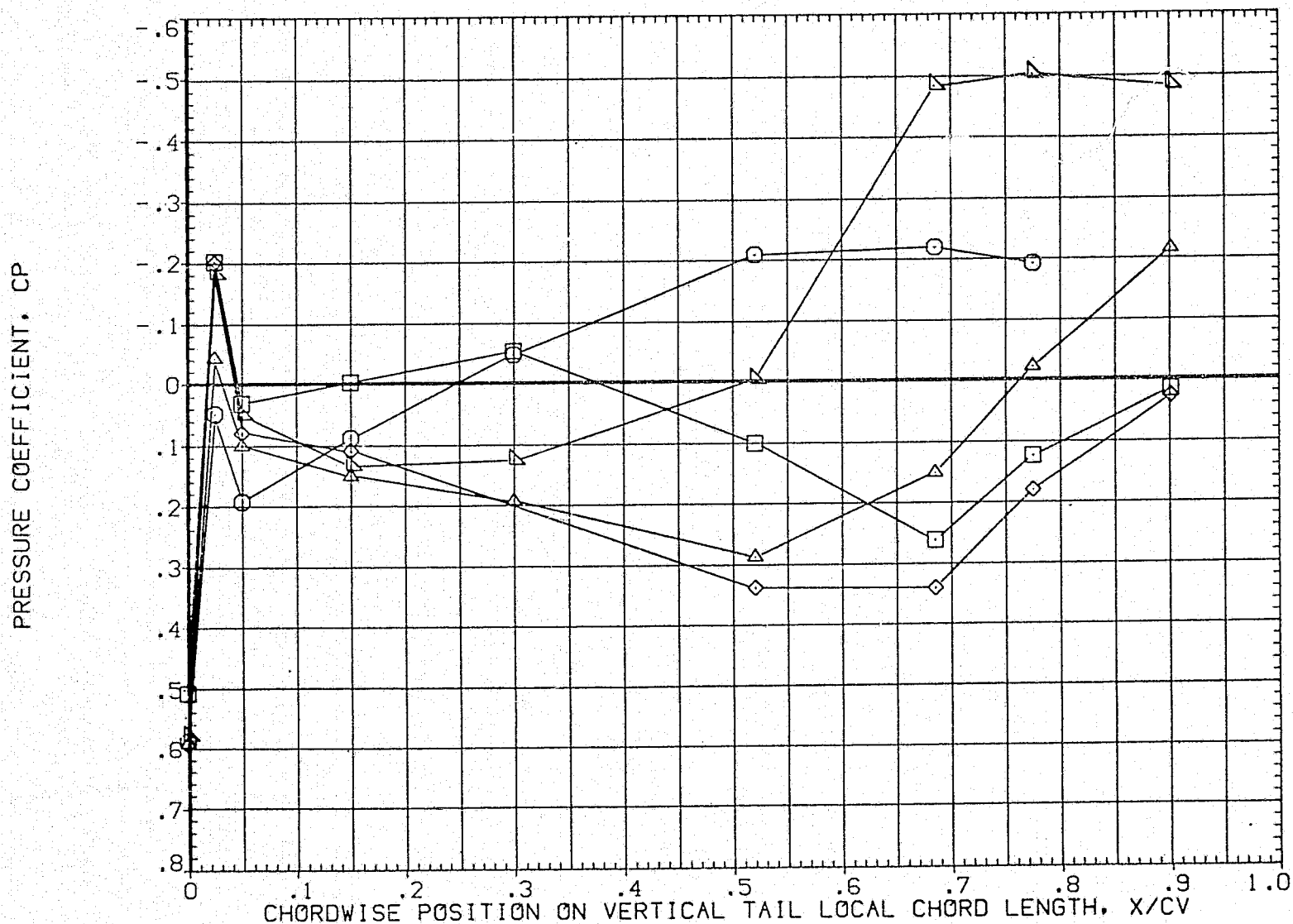


FIG. 78 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=0/0, SPDBRK=55, MACH= 0.9

ARC11-019 1A81 LVAP(SBHL SEALED) LEFT VERTICAL (IETV03)

SYMBOL	Z/BV	ALPHA0	BETA0
○	.158	-4.000	.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	.900	RN/FT	3.500
ELV-18	.000	ELV-08	.000
RUDDER	.000	SPDBRK	55.000

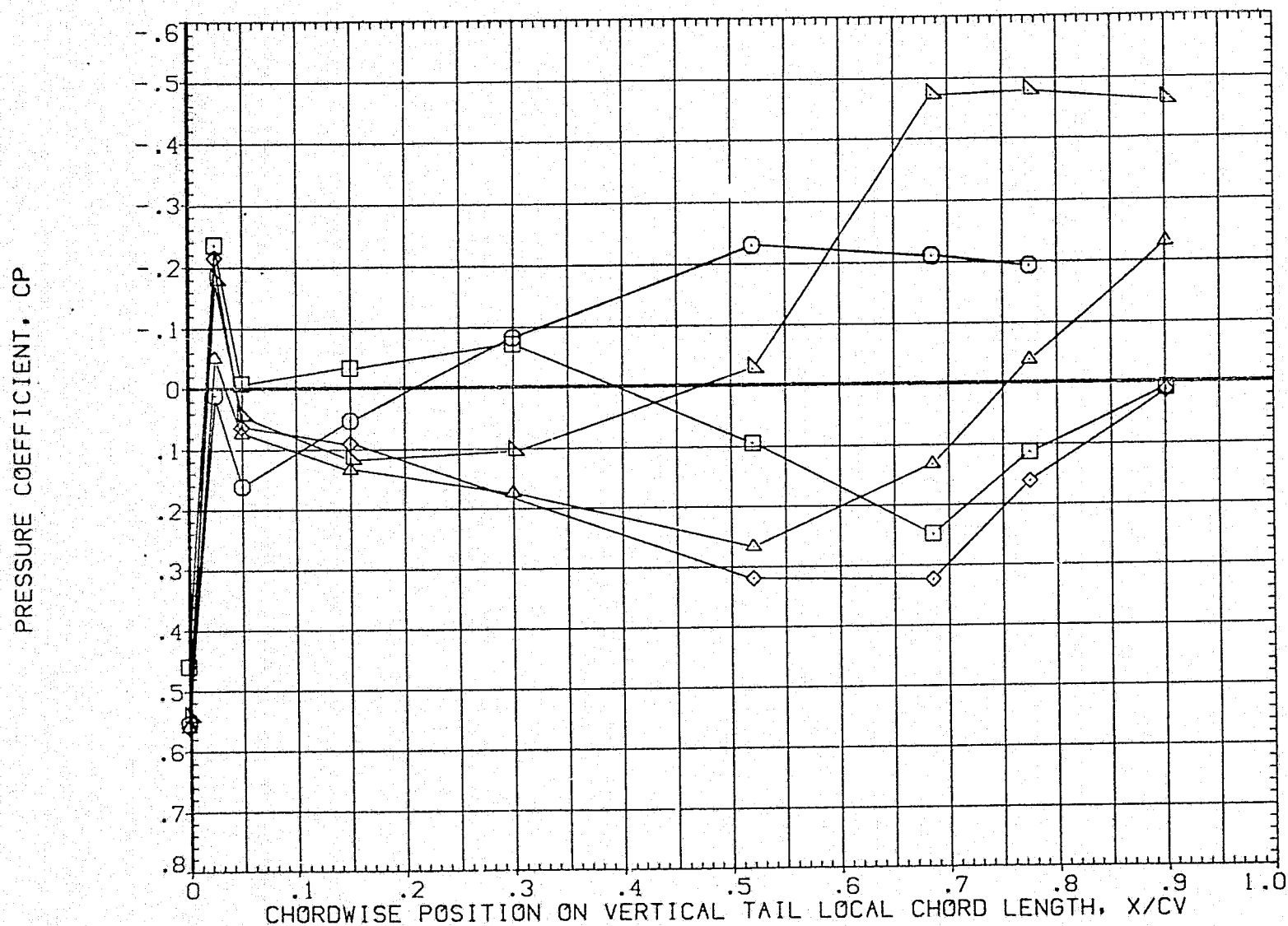


FIG. 78 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=0/0, SPDBRK=55, MACH= 0.9

ARC11-019 IA81 LVAP(SBHL SEALED) LEFT VERTICAL (IETV03)

SYMBOL	Z/BV	ALPHA0	BETA0
○	.158	-2.000	.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	.900	RN/FT	3.500
ELV-IB	.000	ELV-CB	.000
RUDDER	.000	SPDBRK	55.000

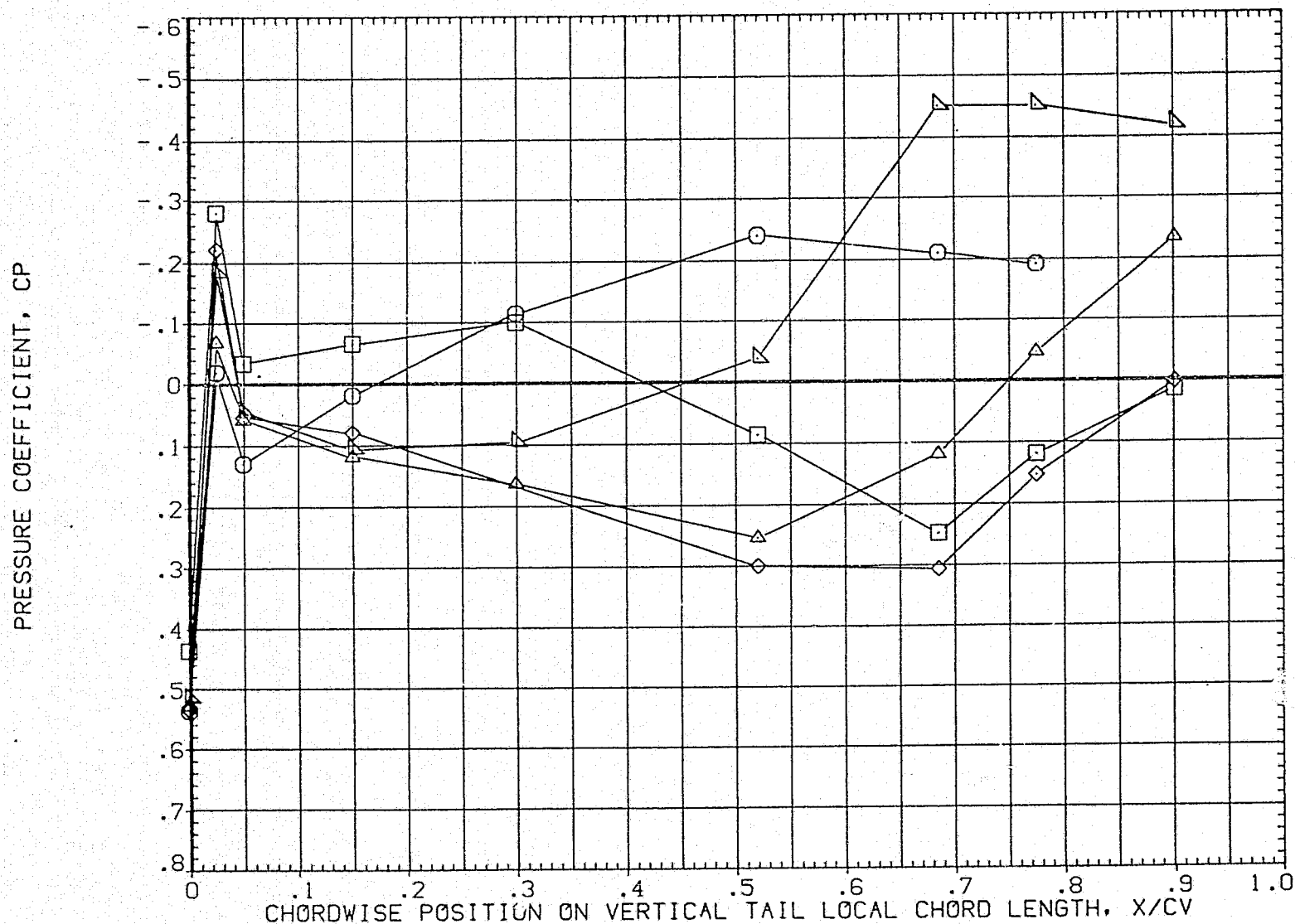


FIG. 78 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=0/0, SPDBRK=55, MACH= 0.9

ARC11-019 IA81 LVAP(SBHL SEALED) LEFT VERTICAL (IETV03)

SYMBOL	Z/BV	ALPHA0	BETA0
○	.158	.000	.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	.900	RN/FT	3.500
ELV-18	.000	ELV-08	.000
RUDDER	.000	SPDBRK	55.000

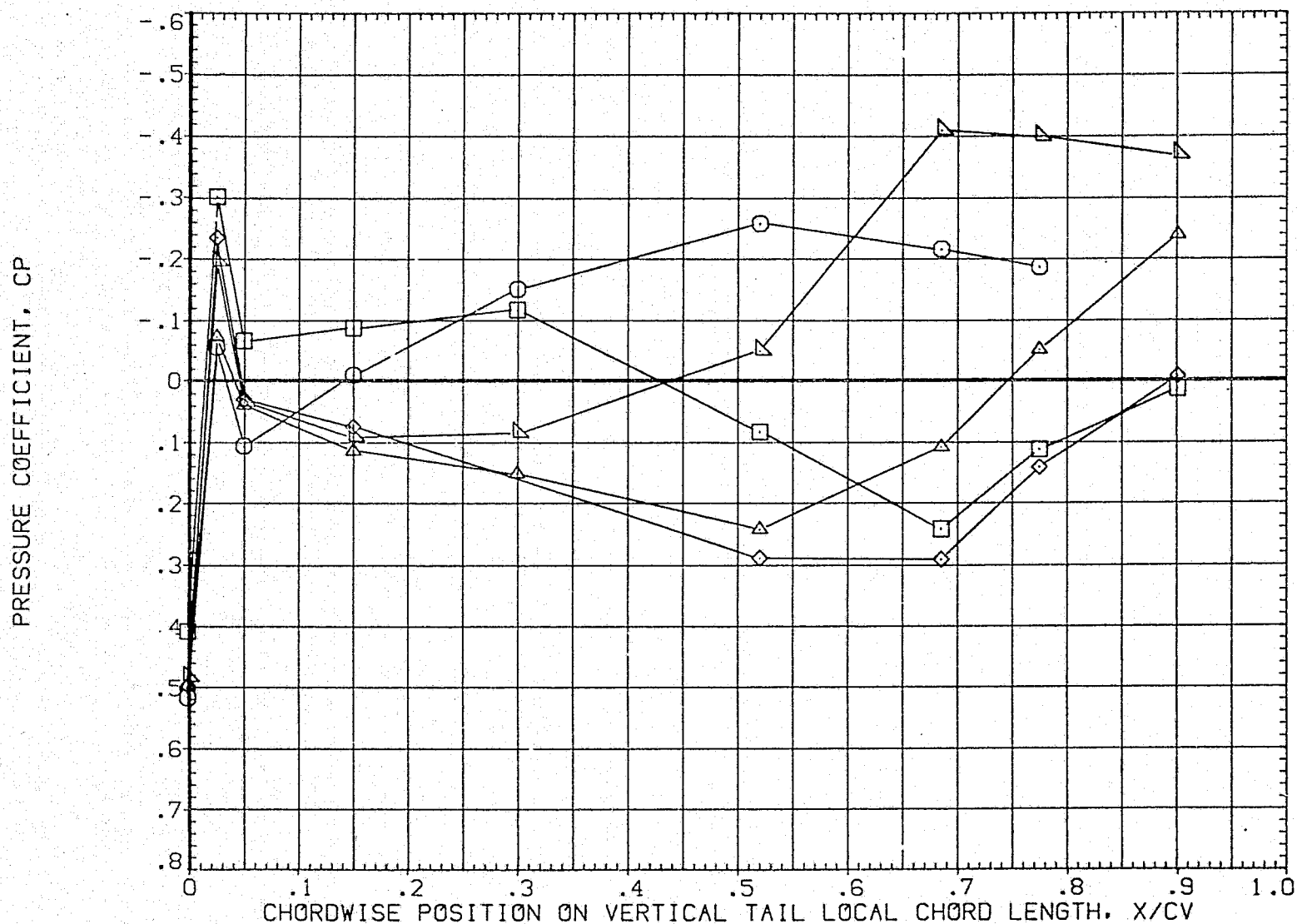


FIG. 78 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=0/0, SPDBRK=55, MACH= 0.9

ARC11-019 IA81 LVAP(SBHL SEALED) LEFT VERTICAL (IETV03)

SYMBOL
 ○
 □
 ◇
 △
 ▽

Z/BV
 .158
 .317
 .602
 .839
 .925

ALPHA0
 2.000

BETA0
 .000

PARAMETRIC VALUES

MACH	.900	RN/FT	3.500
ELV-1B	.000	ELV-0B	.000
RUDDER	.000	SPDBRK	55.000

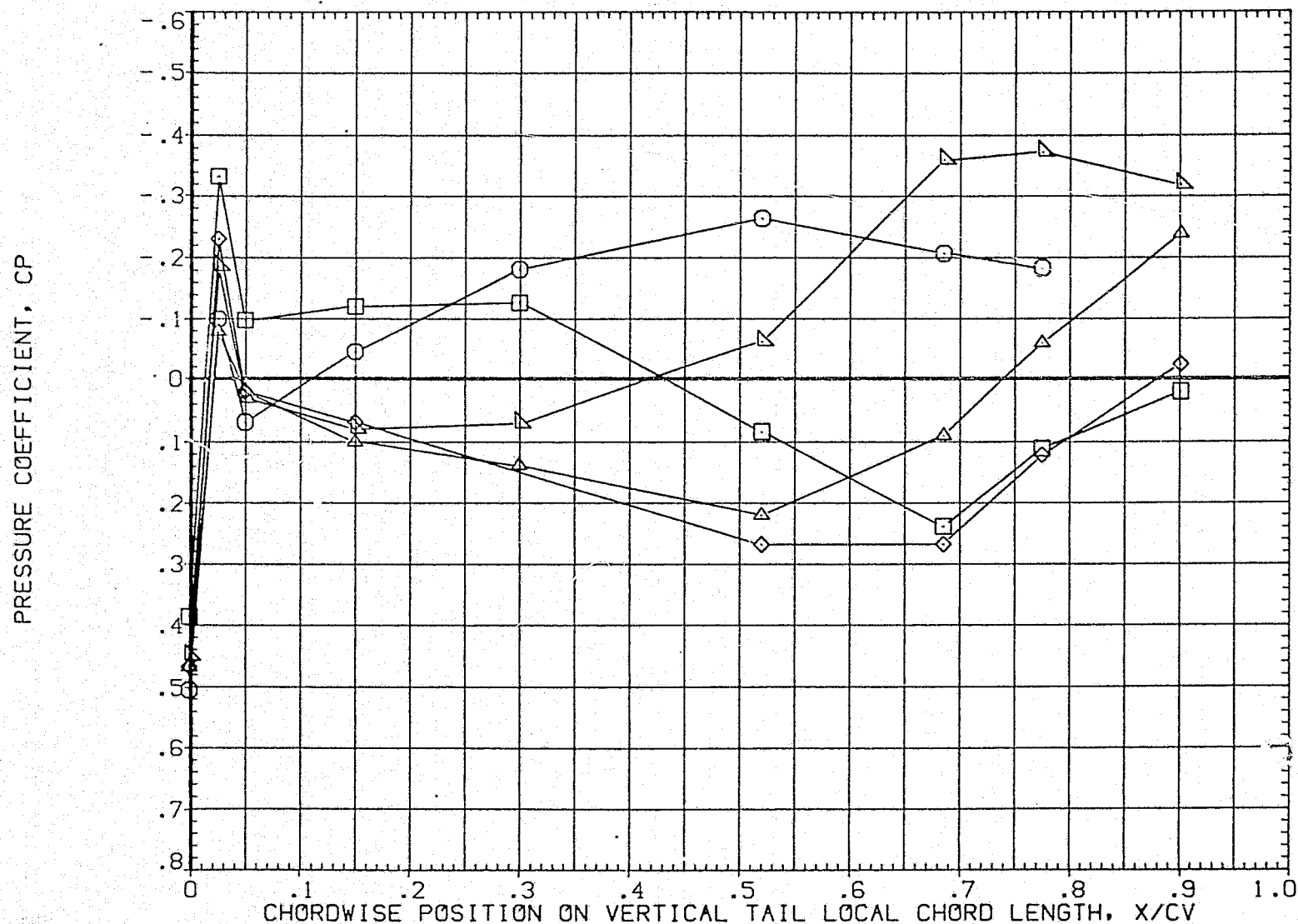


FIG. 78 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=0/0, SPDBRK=55, MACH= 0.9

ARC11-019 IA81 LVAP(SBHL SEALED) LEFT VERTICAL (IETV03)

SYMBOL	Z/BV	ALPHA0	BETA0
○	.158	4.000	.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	.900	RN/FT	3.500
ELV-18	.000	ELV-08	.000
RUDDER	.000	SPDBRK	55.000

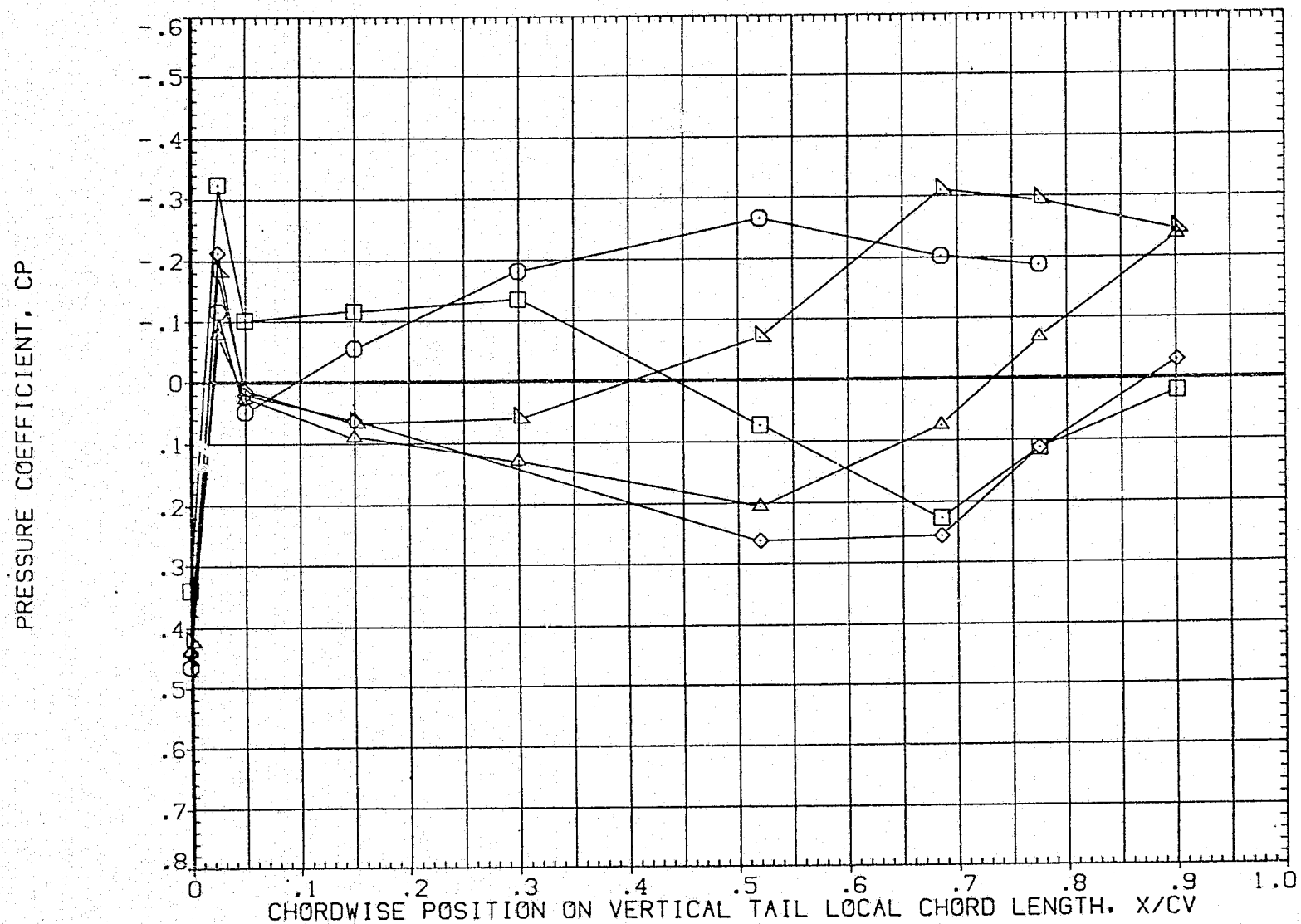


FIG. 78 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON 1/0=0/0, SPDBRK=55, MACH= 0.9

ARC11-019 1A81 LVAP(SBHL SEALED) LEFT VERTICAL (IETV03)

SYMBOL
○
□
◇
△
▽

Z/BV
.158
.317
.602
.839
.925

ALPHA0
6.000

BETA0
.000

PARAMETRIC VALUES

MACH	.900	RN/FT	3,500
ELV-1B	.000	ELV-0B	.000
RUDDER	.000	SPDBRK	55.000

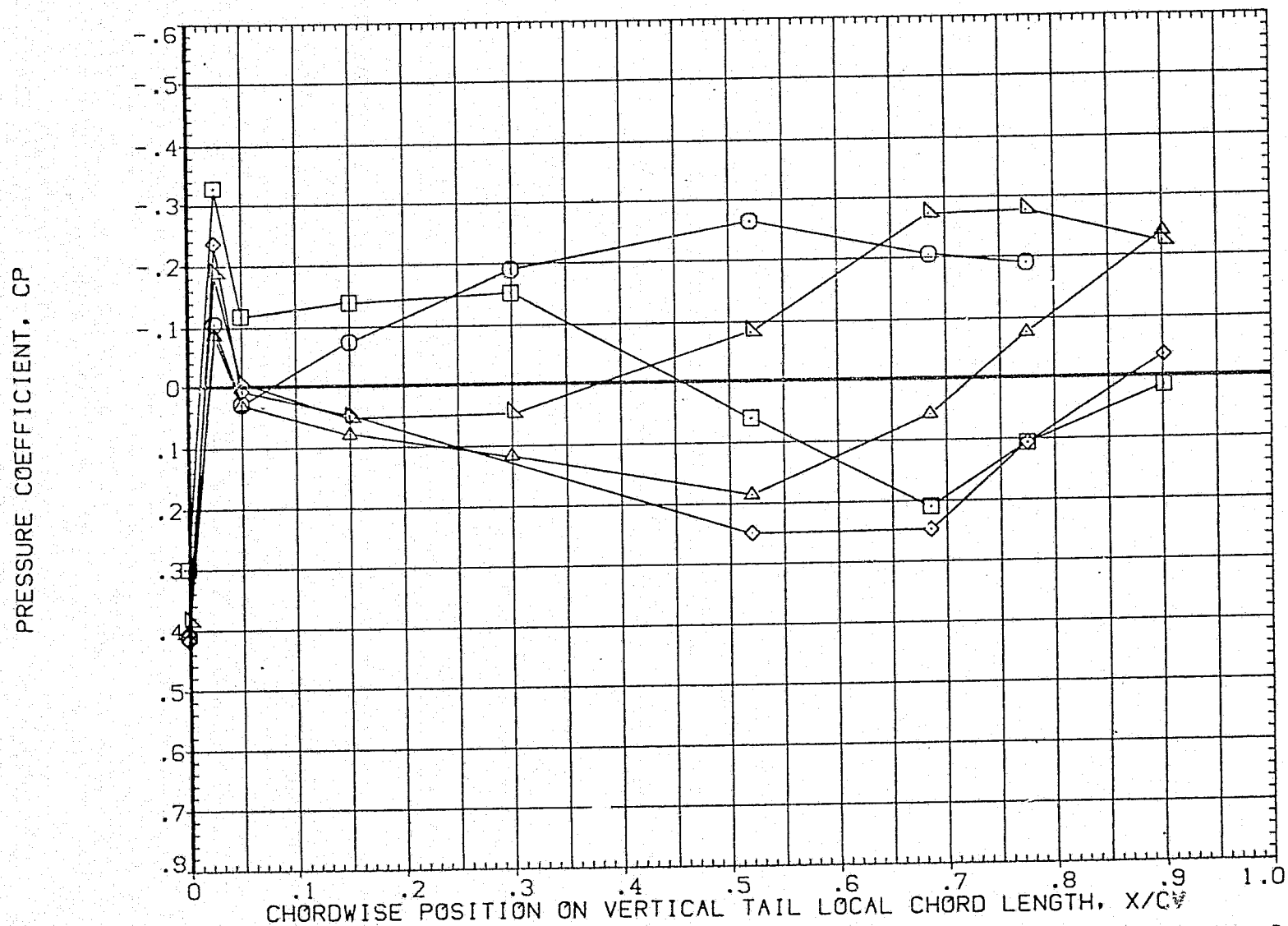


FIG. 78 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=0/0, SPDBRK=55, MACH= 0.9

ARC11-019 1A81 LVAP(SBHL SEALED) LEFT VERTICAL (IETV04)

SYMBOL	Z/BV	ALPHA0	BETA0
○	.158	-6.000	.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	3.000
ELV-1B	.000	ELV-0B	.000
RUDDER	.000	SPDBRK	55.000

PRESSURE COEFFICIENT, CP

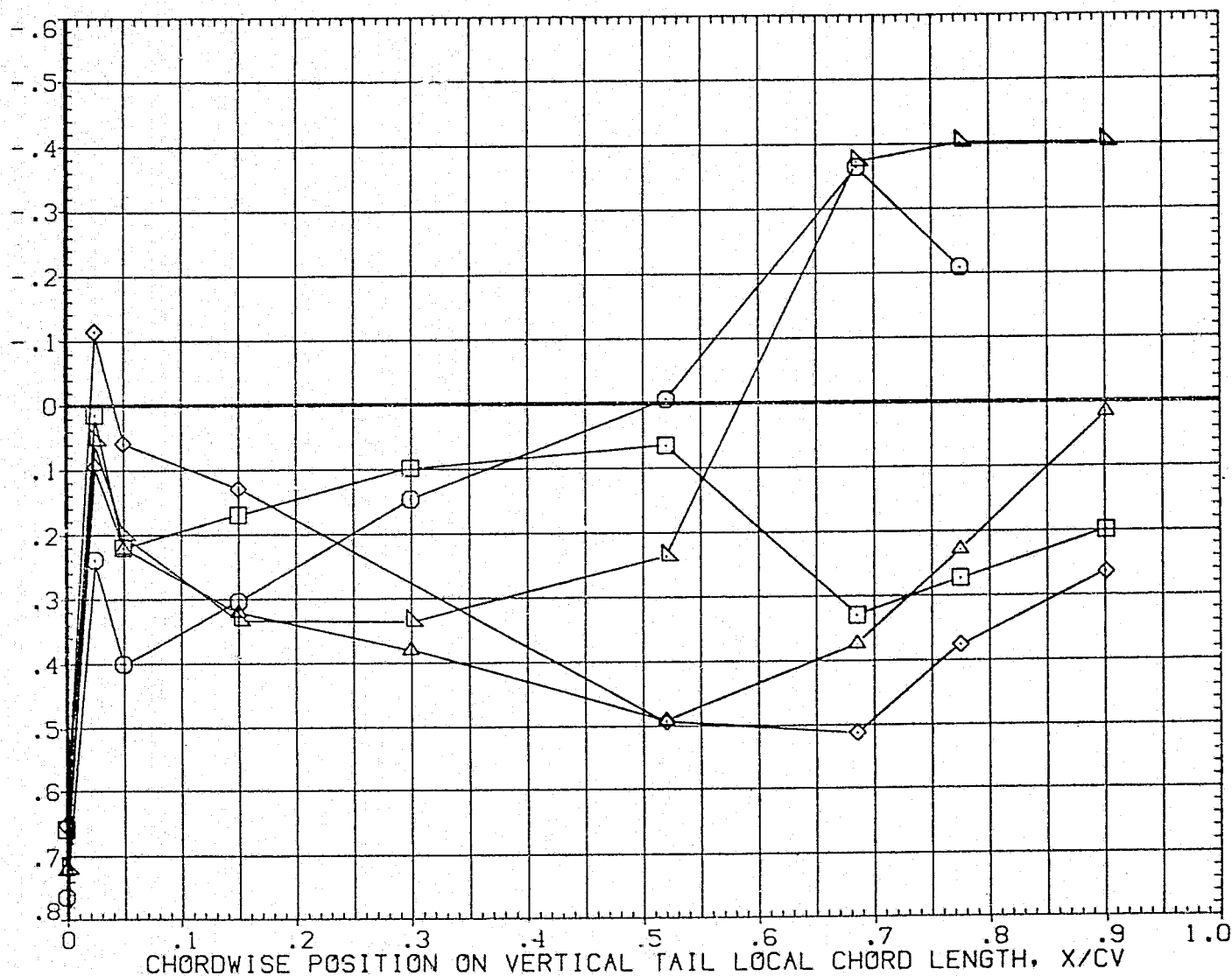


FIG. 79 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=0/0, SPDBRK=55, MACH= 1.1

ARC11-019 IA81 LVAP(SBHL SEALED) LEFT VERTICAL (IETV04)

SYMBOL	Z/BV	ALPHA0	BETA0
○	.158	-4.000	.000
□	.217		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES		
MACH	1.100	RN/FT 3.000
ELV-18	.000	ELV-CB .000
RUDDER	.000	SPDBRK 55.000

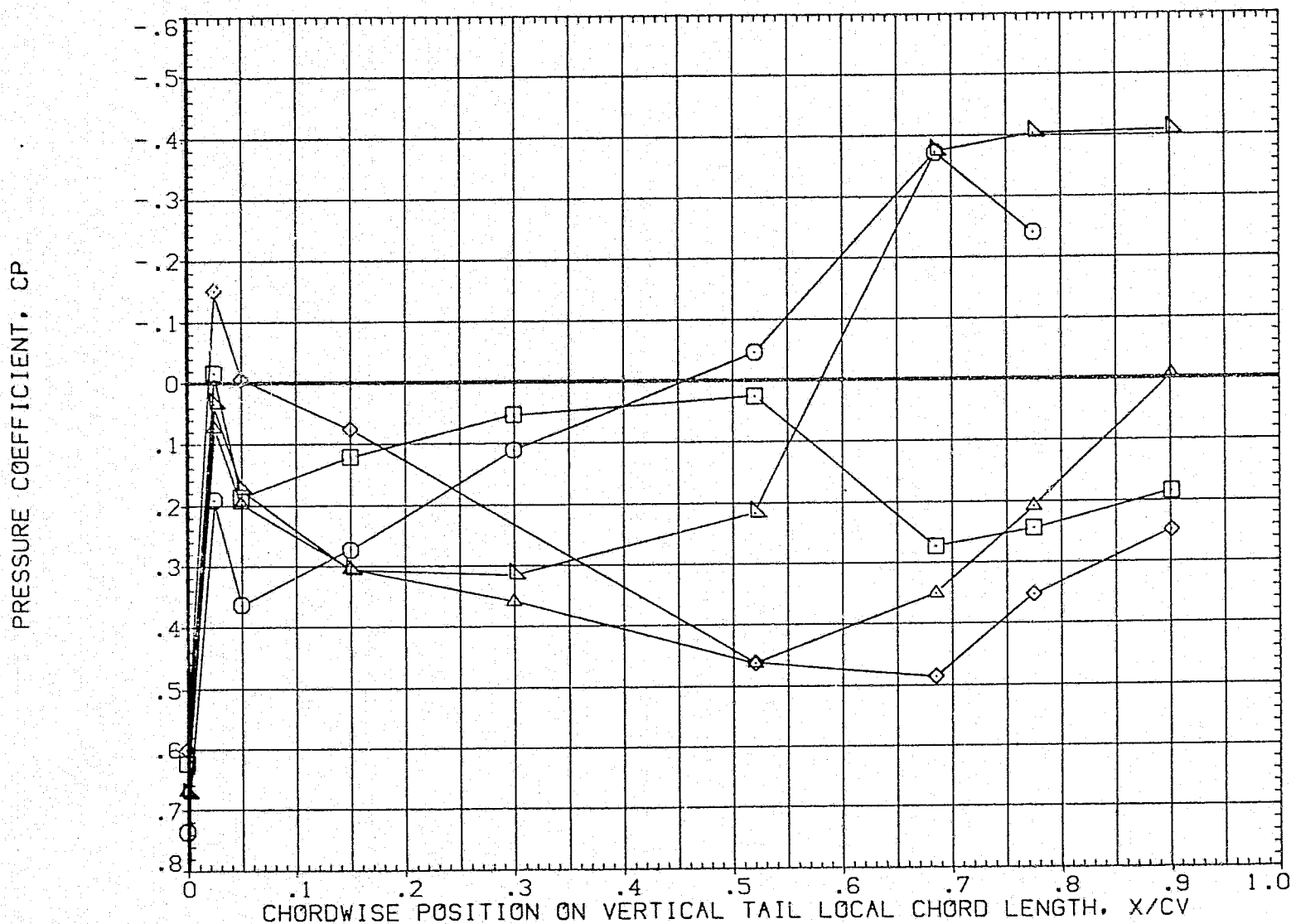


FIG. 79 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=0/0, SPDBRK=55, MACH= 1.1

ARC11-019 IA81 LVAP(SBHL SEALED) LEFT VERTICAL (IETV04)

SYMBOL
○
□
◇
△
▽

Z/BV
.158
.317
.602
.839
.925

ALPHA0
-2.000

BETA0
.000

PARAMETRIC VALUES

MACH	1.100	RN/FT	3.000
ELV-18	.000	ELV-08	.000
RUDDER	.000	SPDBRK	55.000

PRESSURE COEFFICIENT, CP

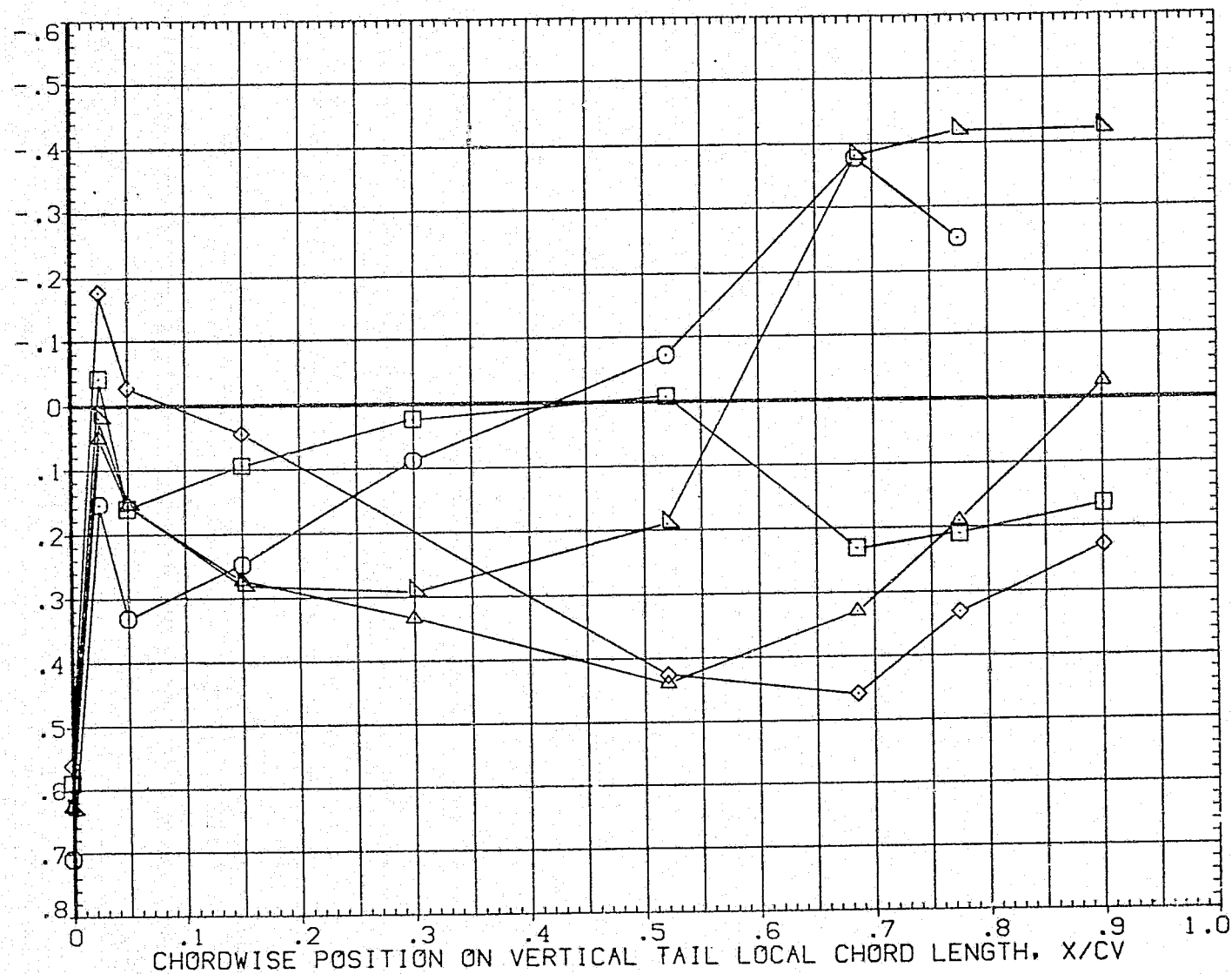


FIG. 79 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=0/0, SPDBRK=55, MACH= 1.1

ARC11-019 IA81 LVAP(SBHL SEALED) LEFT VERTICAL (IETV04)

SYMBOL	Z/BV	ALPHA0	BETA0	PARAMETRIC VALUES			
○	.158	.000	.000	MACH	1.100	RN/FT	3.000
□	.317			ELV-IB	.000	ELV-CB	.000
◇	.602			RUDDER	.000	SPDBRK	55.000
△	.839						
▽	.925						

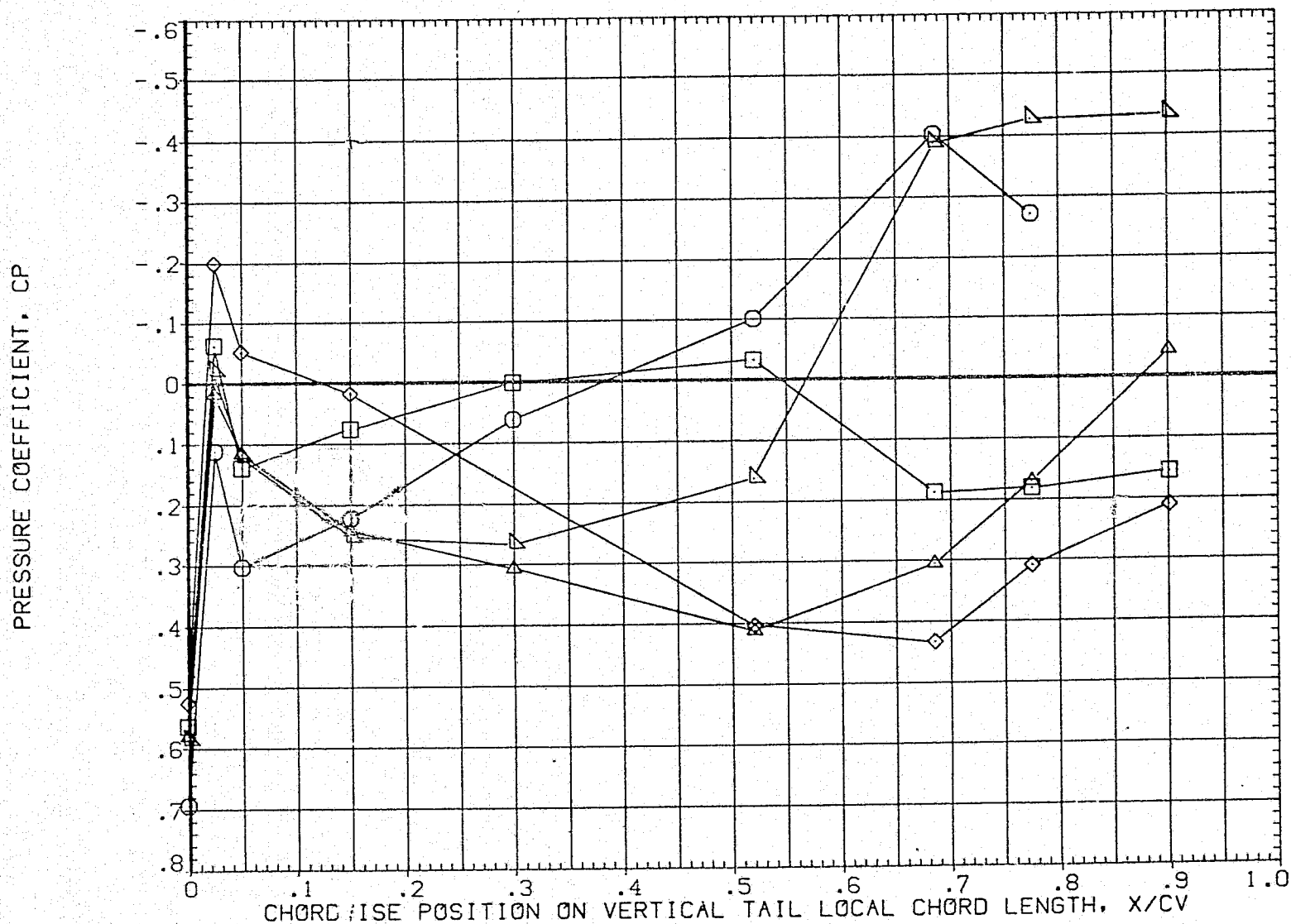


FIG. 79 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=0/0, SPDBRK=55, MACH= 1.1

ARC11-019 IA81 LVAP(SBHL SEALED) LEFT VERTICAL (IETV04)

SYMBOL
○
□
◇
△
▽

Z/BV
.158
.317
.502
.839
.925

ALPHA0
2.000

BETA0
.000

PARAMETRIC VALUES

MACH 1.100 RN/FT 3.000
ELV-1B .000 ELV-0B .000
RUDDER .000 SPDBRK 55.000

PRESSURE COEFFICIENT, CP

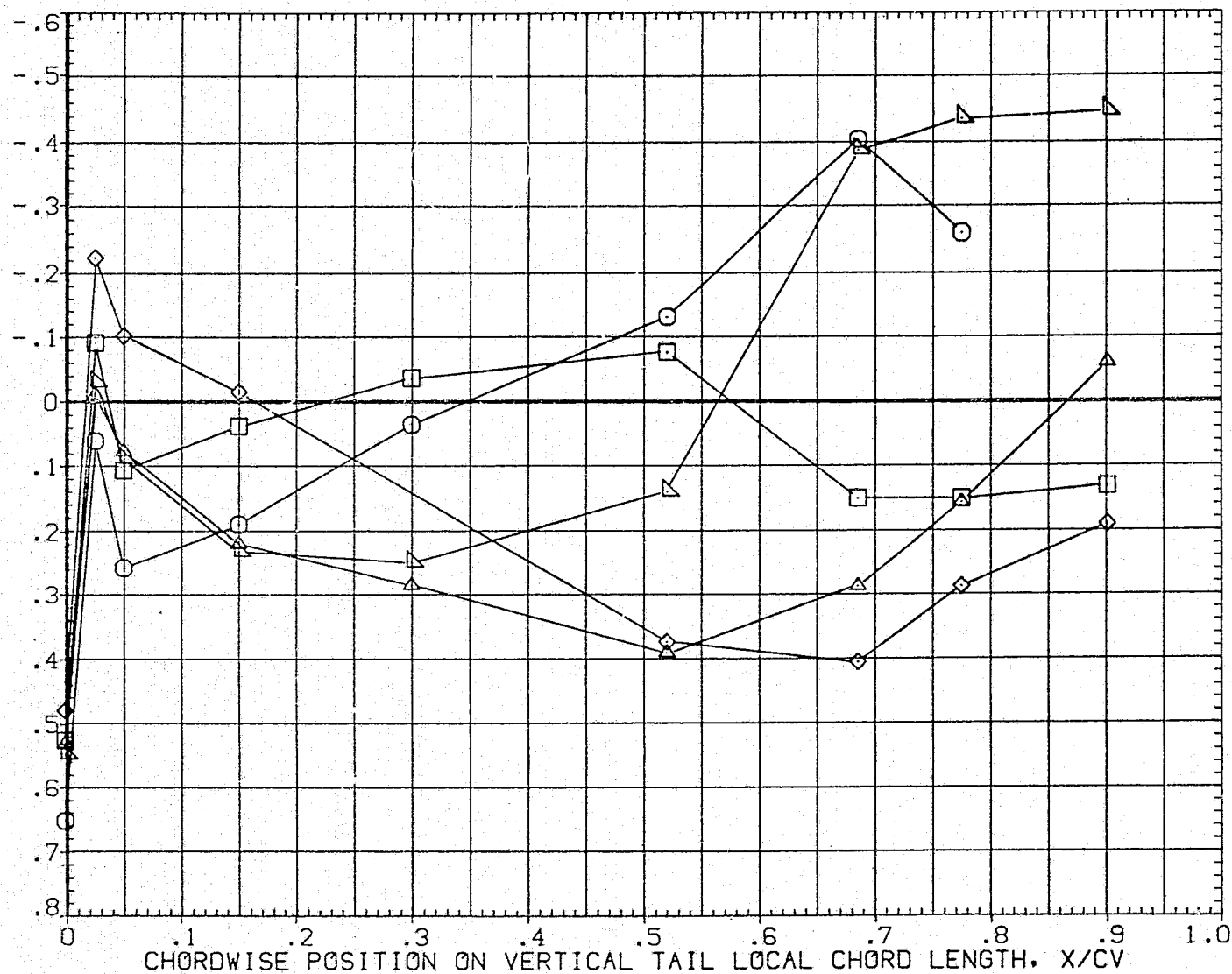


FIG. 79 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=0/0, SPDBRK=55, MACH= 1.1

ARC11-019 1A81 LVAP(SBHL SEALED) LEFT VERTICAL (IETV04)

SYMBOL
 \square
 \diamond
 \triangle
 ∇

Z/BV
 .158
 .317
 .602
 .839
 .925

ALPHA0
 4.000

BETA0
 .000

PARAMETRIC VALUES

MACH	1.100	RN/FT	3.000
ELV-1B	.000	ELV-0B	.000
RUDDER	.000	SPDBRK	55.000

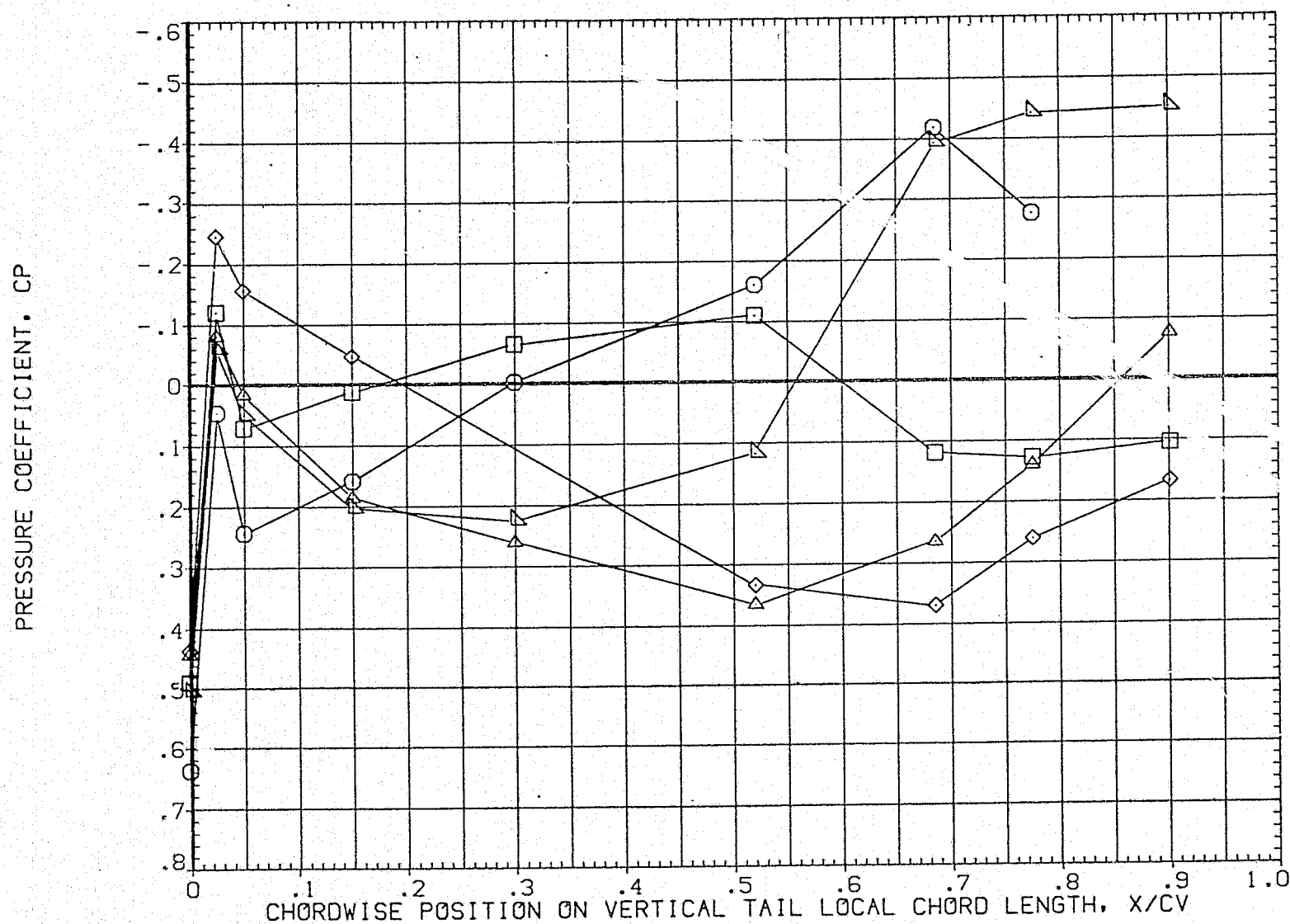


FIG. 79 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON 1/0=0/0, SPDBRK=55, MACH= 1.1

ARC11-019 1A81 LVAP(SBHL SEALED) LEFT VERTICAL (IETV04)

SYMBOL	Z/BV	ALPHA0	BETA0
○	.158	6.000	.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	1.100	RN/FT	3.000
ELV-1B	.000	ELV-0B	.000
RUDDER	.000	SPDBRK	55.000

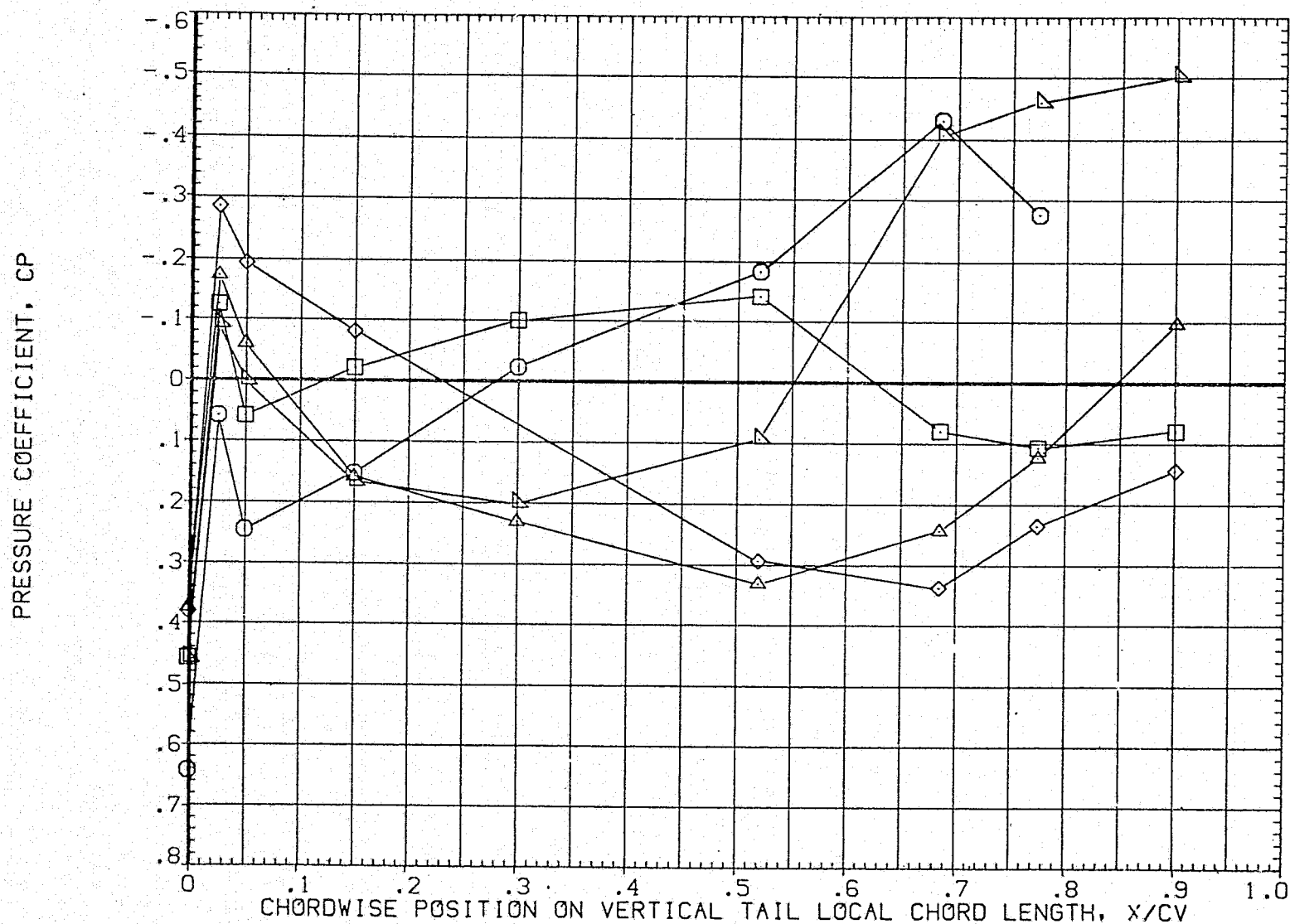


FIG. 79 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON 1/0=0/0, SPDBRK=55, MACH= 1.1

ARC11-019 IA81 LVAP(SBHL SEALED) LEFT VERTICAL (IETV05)

SYMBOL	Z/BV	ALPHA0	BETA0	MACH	PARAMETRIC VALUES	RN/FT	2.250
○	.158	-6.000	.000	ELV-1B	.000	ELV-0B	.000
□	.317			RUDDER	.000	SPDBRK	55.000
◇	.602						
△	.839						
▽	.925						

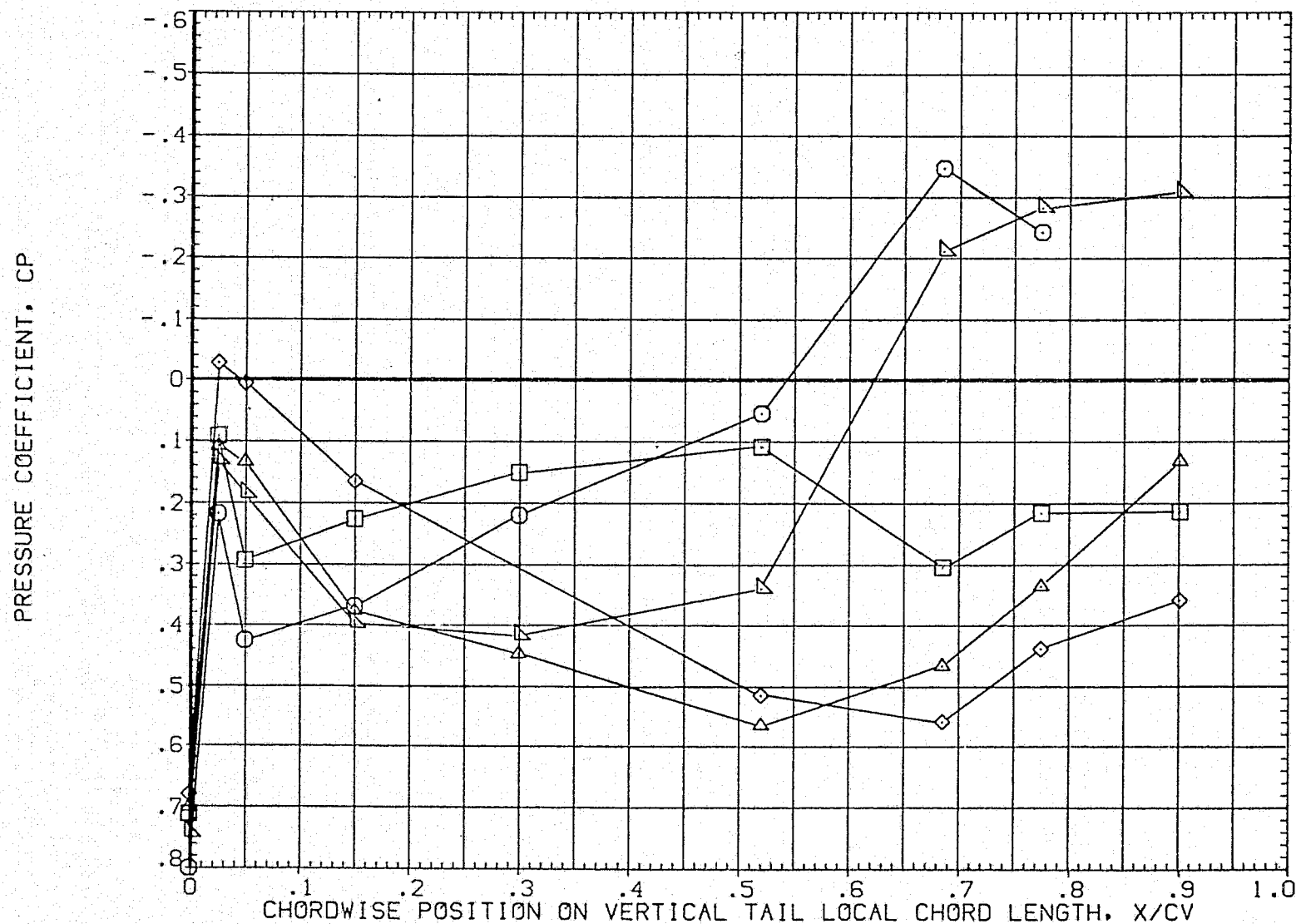


FIG. 80 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=0/0, SPDBRK=55, MACH=1.25

ARC11-019 1A81 LVAP(SBHL SEALED) LEFT VERTICAL (IETV05)

SYMBOL	Z/BV	ALPHA0	BETA0
○	.158	-4.000	.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-18	.000	ELV-08	.000
RUDDER	.000	SPDBRK	55.000

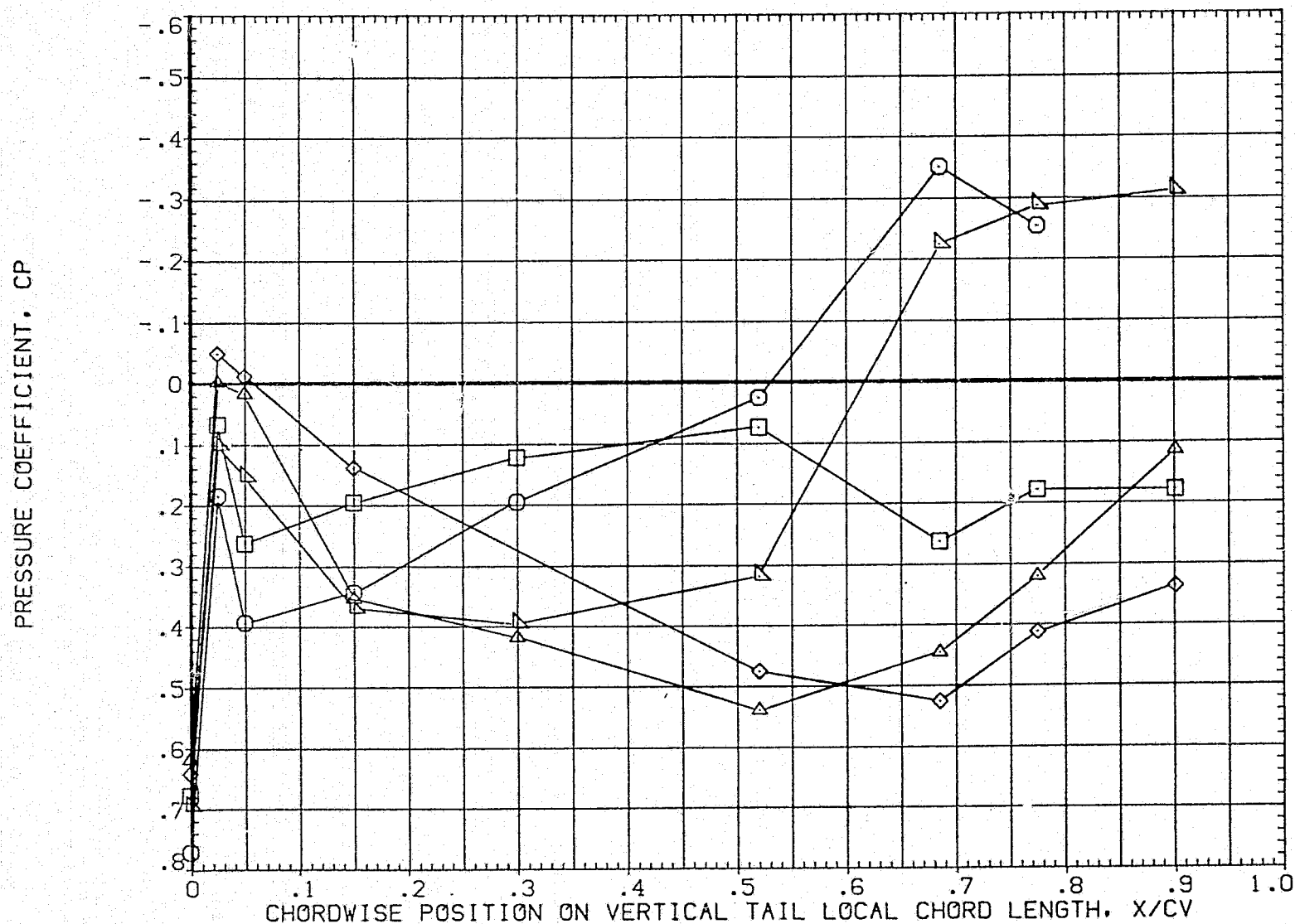


FIG. 80 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON 1/0=0/0, SPDBRK=55, MACH=1.25

ARC11-019 1A81 LVAP(SBHL SEALED) LEFT VERTICAL (IETV05)

SYMBOL	Z/BV	ALPHA0	BETA0
○	.158	-2.000	.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-1B	.000	ELV-0B	.000
RUDDER	.000	SPDBRK	55.000

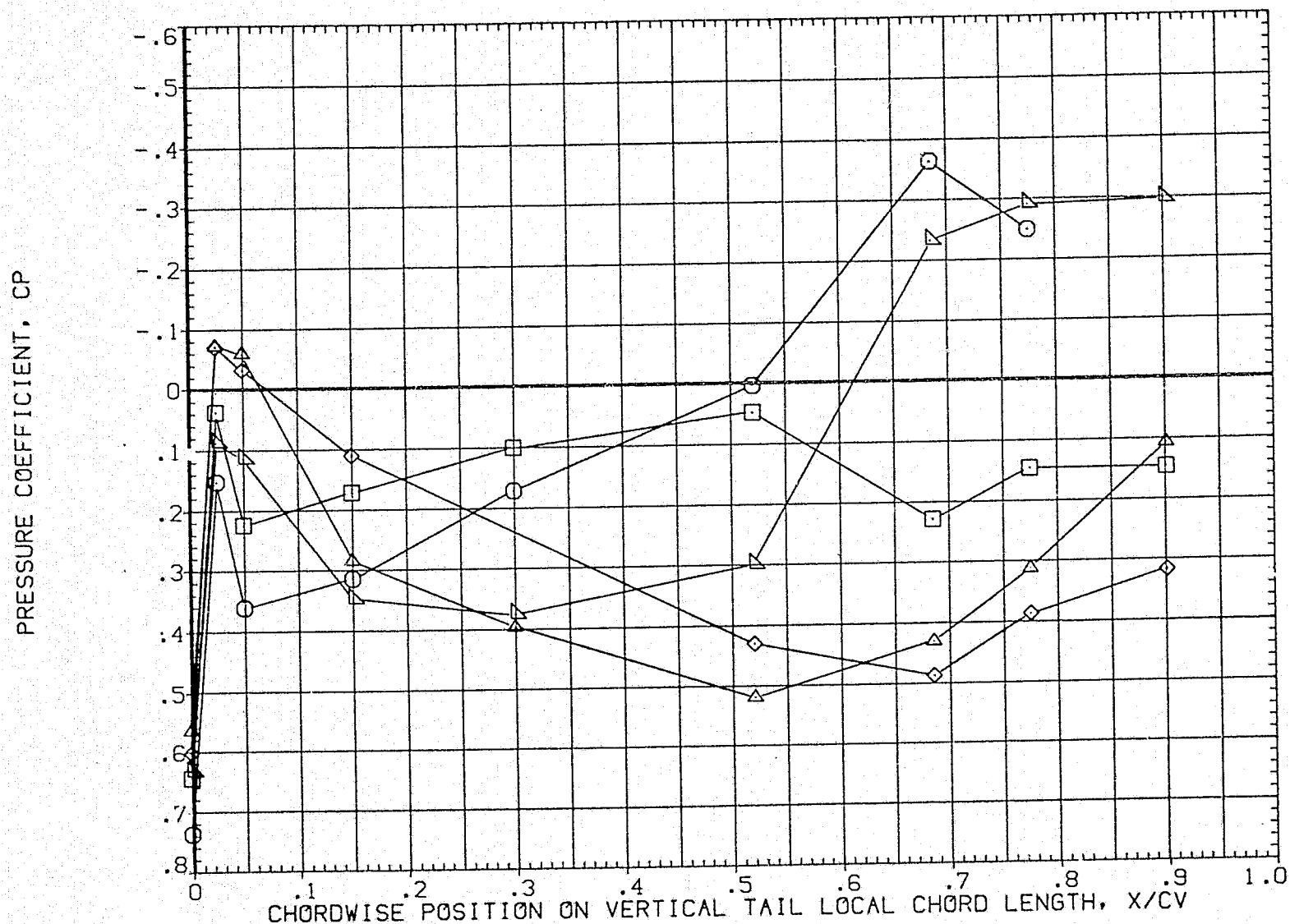


FIG. 80 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON 1/0=0/0, SPDBRK=55, MACH=1.25

ARC11-019 IA81 LVAP(SBHL SEALED) LEFT VERTICAL (IETV05)

SYMBOL	Z/BV	ALPHA0	BETA0
○	.158	.000	.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2,250
ELV-1B	.000	ELV-0B	.000
RUDDER	.000	SPDBRK	55,000

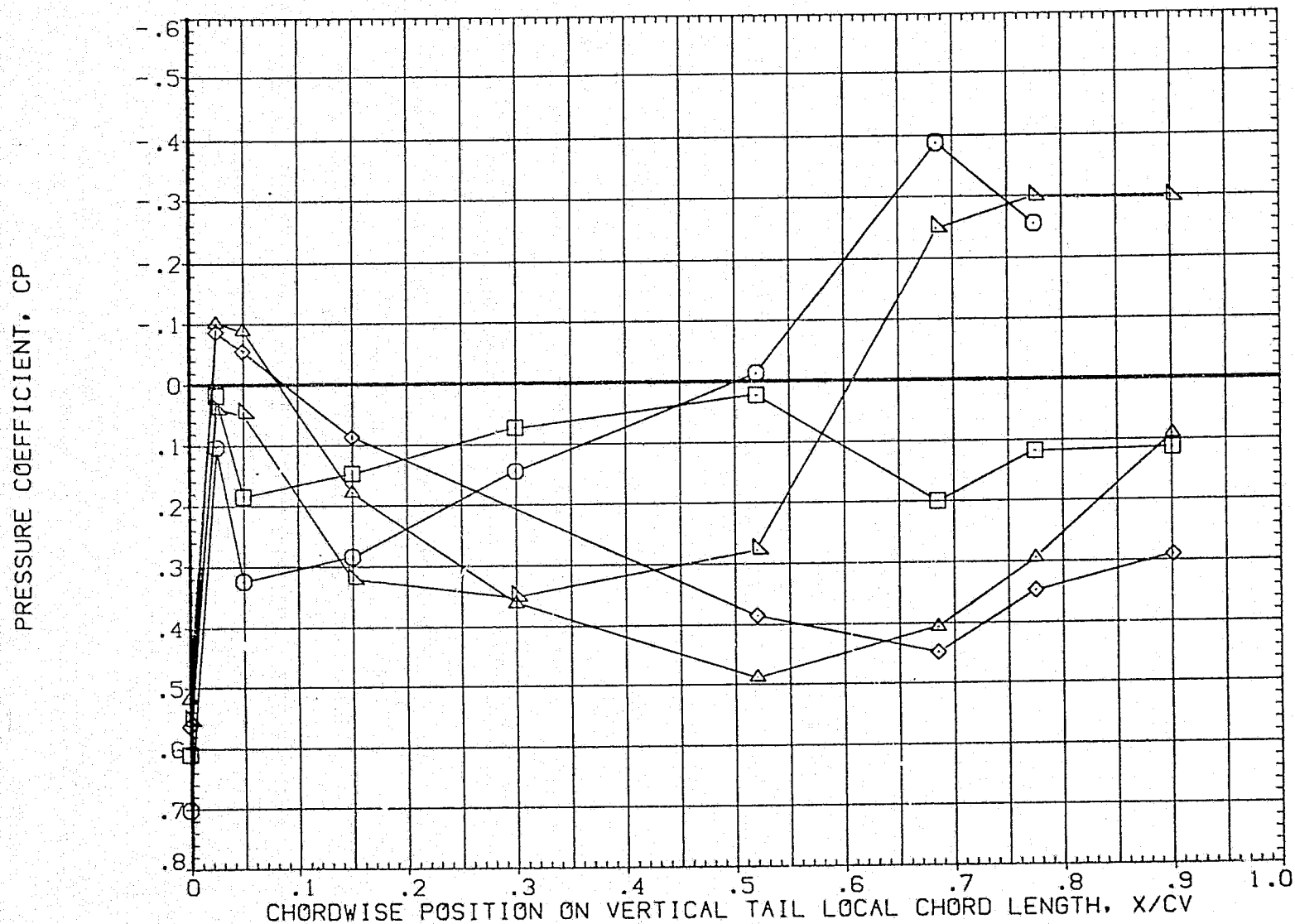


FIG. 80 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=0/0, SPDBRK=55, MACH=1.25

ARC11-019 IA81 LVAP(SBHL SEALED) LEFT VERTICAL (IETV05)

SYMBOL	Z/BV	ALPHA0	BETA0
○	.158	2.000	.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-1B	.000	FLV-0B	.000
RUDDER	.000	SPDBRK	55.000

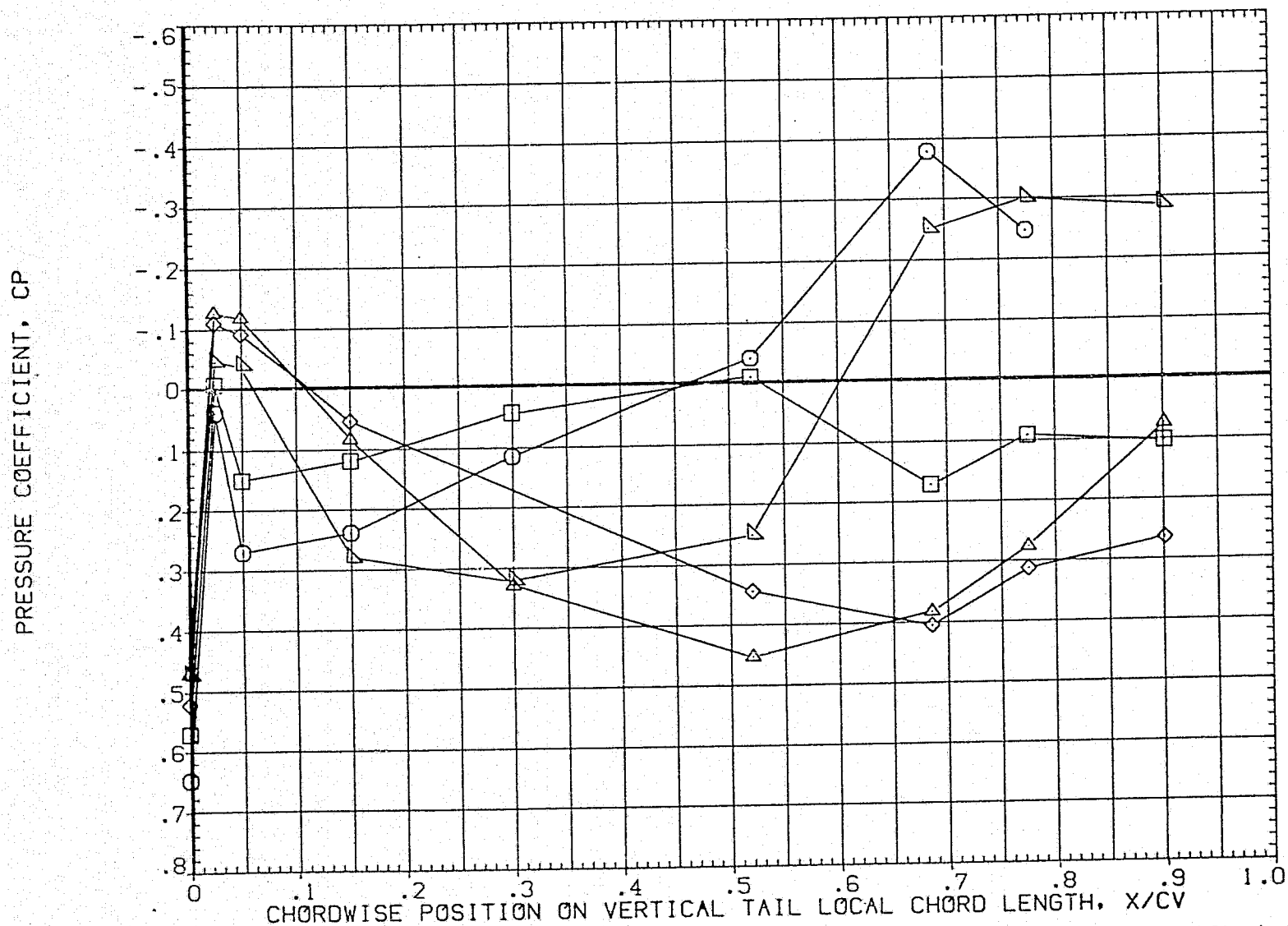


FIG. 80 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=0/0, SPDBRK=55, MACH=1.25

ARC11-019 IA81 LVAP(SBHL SEALED) LEFT VERTICAL (IETV05)

SYMBOL	Z/BV	ALPHA0	BETA0
○	.158	4.000	.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-IB	.000	ELV-OB	.000
RUDDER	.000	SPDBRK	55.000

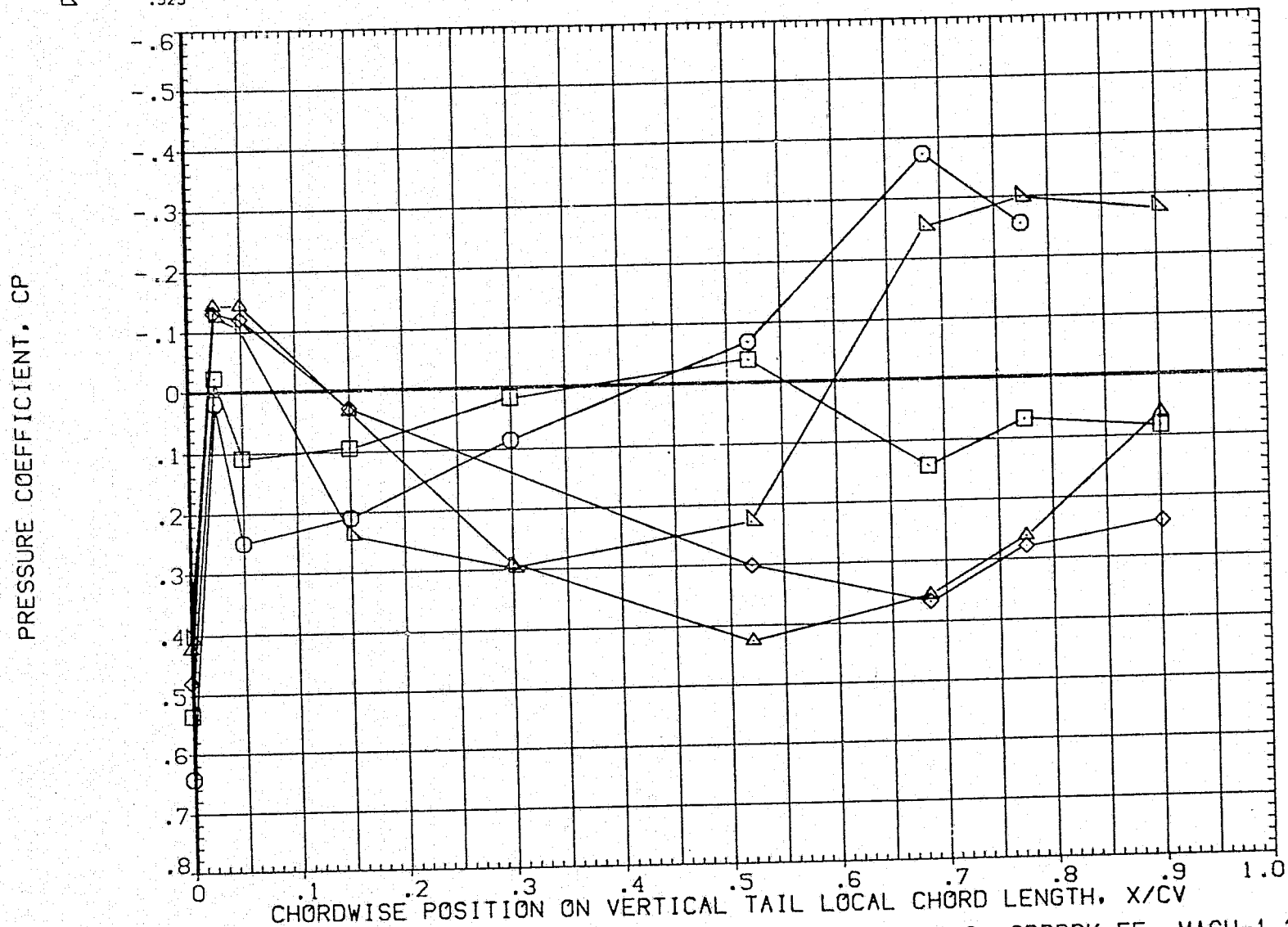


FIG. 80 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=0/0, SPDBRK=55, MACH=1.25

ARC11-019 IA81 LVAP(SBHL SEALED) LEFT VERTICAL (IETV05)

SYMBOL

○
□
◇
△
▽

Z/BV

.158
.317
.602
.839
.925

ALPHA0

6.000

BETA0

.000

PARAMETRIC VALUES

MACH	1.250	RN/FT	2.250
ELV-1B	.000	ELV-0B	.000
RUDDER	.000	SPDBRK	55.000

PRESSURE COEFFICIENT, CP

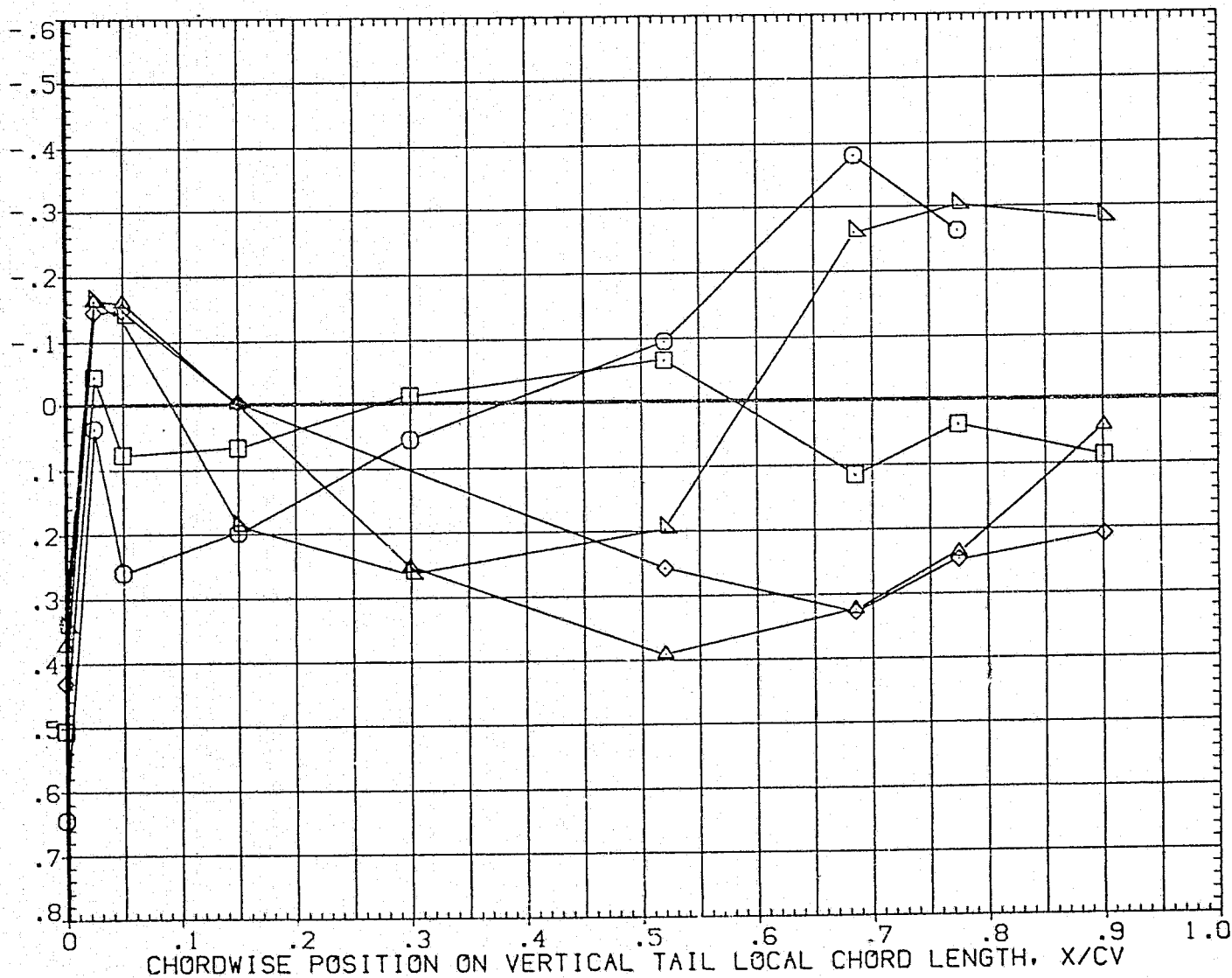


FIG. 80 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON I/O=0/0, SPDBRK=55, MACH=1.25

ARC11-019 IA81 LVAP(SBHL SEALED) LEFT VERTICAL (IETV05)

SYMBOL	Z/BV	ALPHA°	BETA°
○	.158	8.000	.000
□	.317		
◇	.602		
△	.839		
▽	.925		

PARAMETRIC VALUES			
MACH	1.250	RN/FT	2.250
ELV-18	.000	ELV-08	.000
RUDDER	.000	SPDBRK	55.000

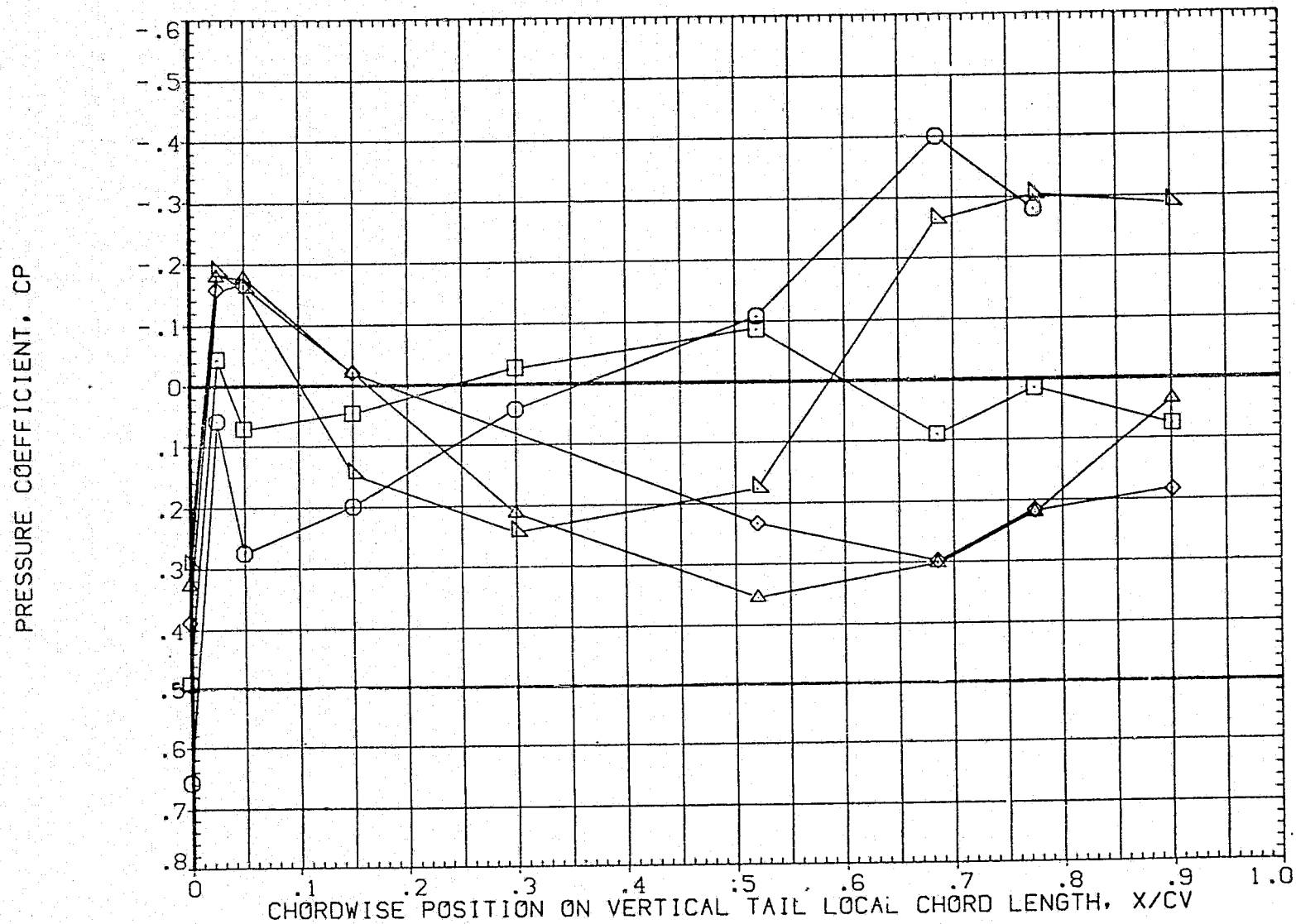


FIG. 80 VERT. TAIL CHORDWISE PRESS. DIST. ELEVON 1/0=0/0, SPDBRK=55, MACH=1.25

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(IETU06)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP
(IETU13)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP
(IETL06)	DATA NOT AVAILABLE
(IETL13)	DATA NOT AVAILABLE

MACH	ELV-IB	RN/FT	ELV-OB
.600	8.000	2.250	4.000
.600	8.000	2.250	.000
.600	8.000	2.250	4.000
.600	8.000	2.250	.000

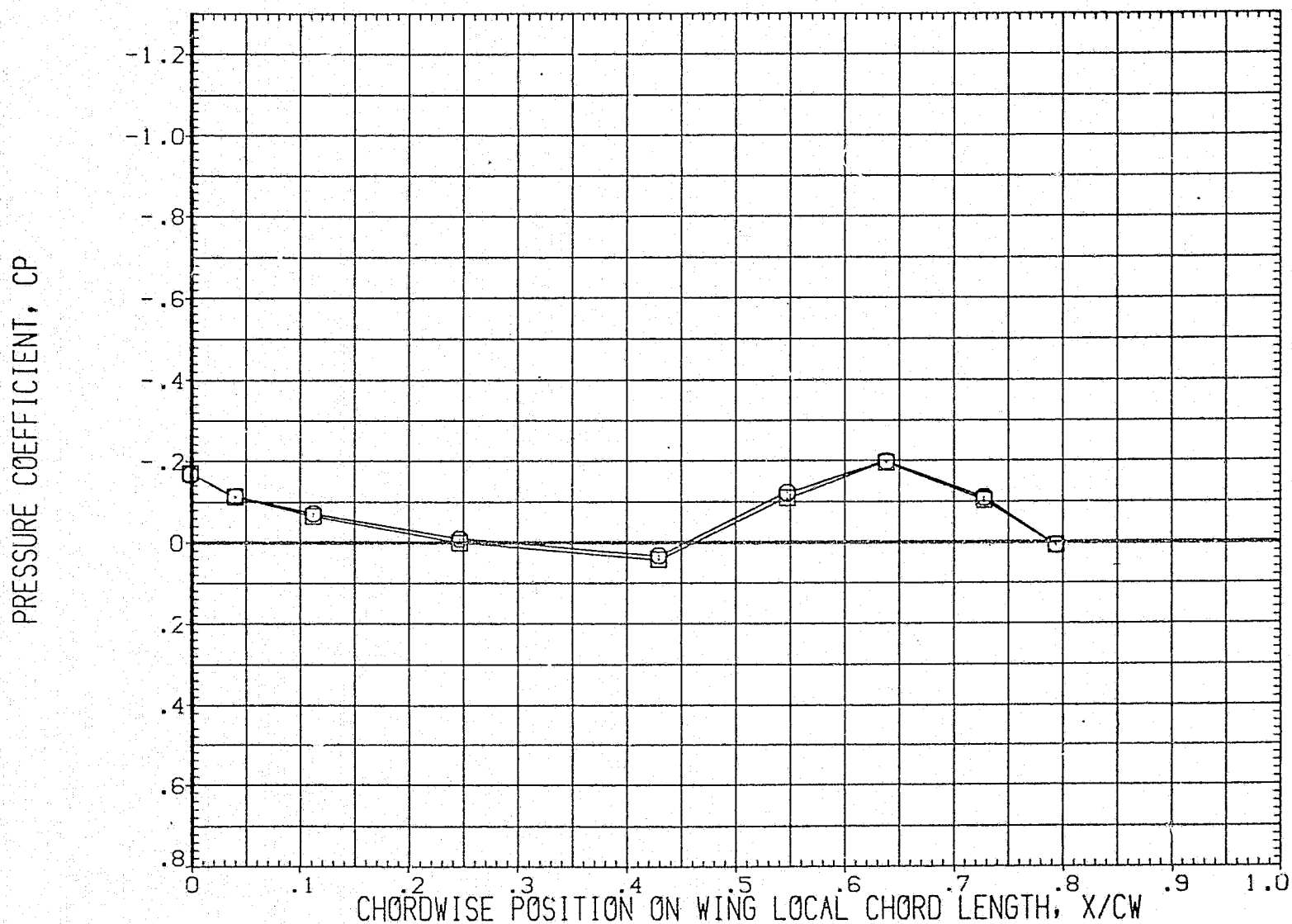


FIG. 81 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 0.6

ALPHA0= -4.000 BETA0 = .000 Y/BW = .235

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(IETU06)	ARC11-019 IAB1 LVAP(ELHL UNSEALED) LEFT WING TOP	.600	8.000	2.250	4.000
(IETU13)	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING TOP	.600	8.000	2.250	.000
(IETL06)	ARC11-019 IAB1 LVAP(ELHL UNSEALED) LEFT WING BOT.	.600	8.000	2.250	4.000
(IETL13)	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING BOT.	.600	8.000	2.250	.000

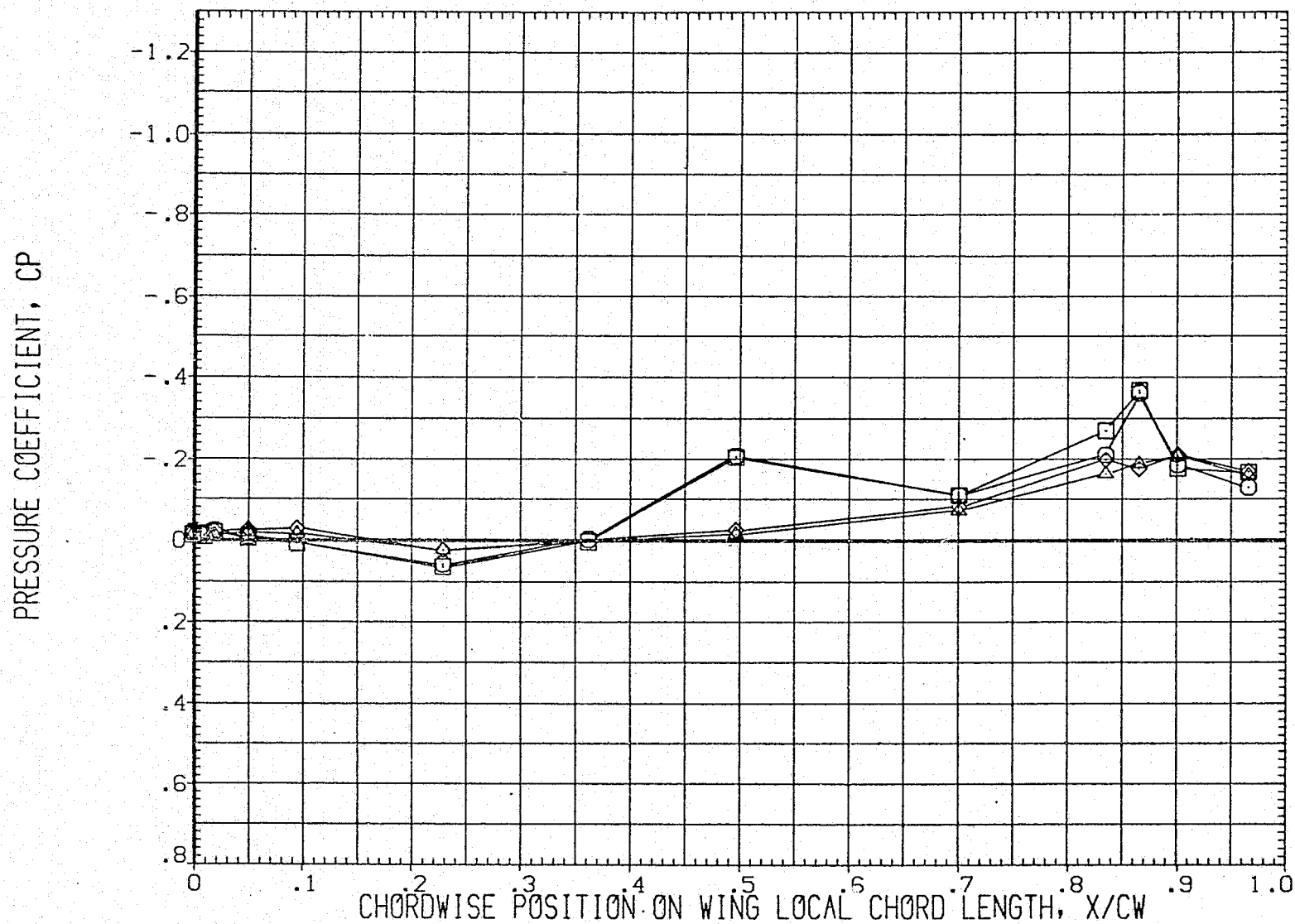


FIG. 81 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 0.6

ALPHA0= -4.000 BETA0 = .000 Y/BW = .299

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(IETU06)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	.600	8.000	2.250	4.000
(IETU13)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.600	8.000	2.250	.000
(IETL06)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	.600	8.000	2.250	4.000
(IETL13)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.600	8.000	2.250	.000

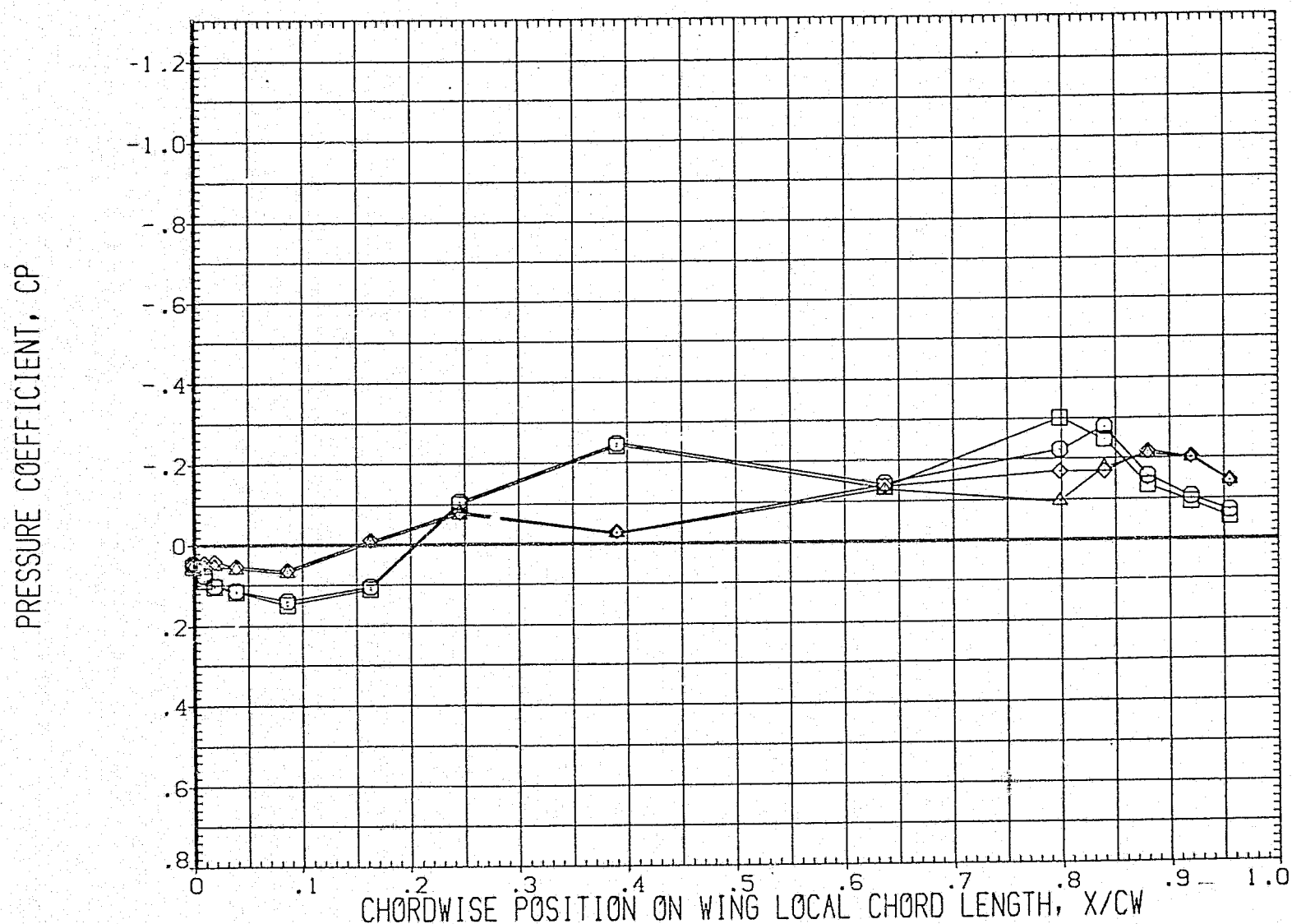


FIG. 81 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPOBRK= 0, MACH = 0.6
 ALPHA0= -4.000 BETA0 = .000 Y/BW = .364 PAGE 1325

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(IETU06)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	.600	8.000	2.250	4.000
(IETU13)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.600	8.000	2.250	.000
(IETL06)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	.600	8.000	2.250	4.000
(IETL13)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.600	8.000	2.250	.000

PRESSURE COEFFICIENT, CP

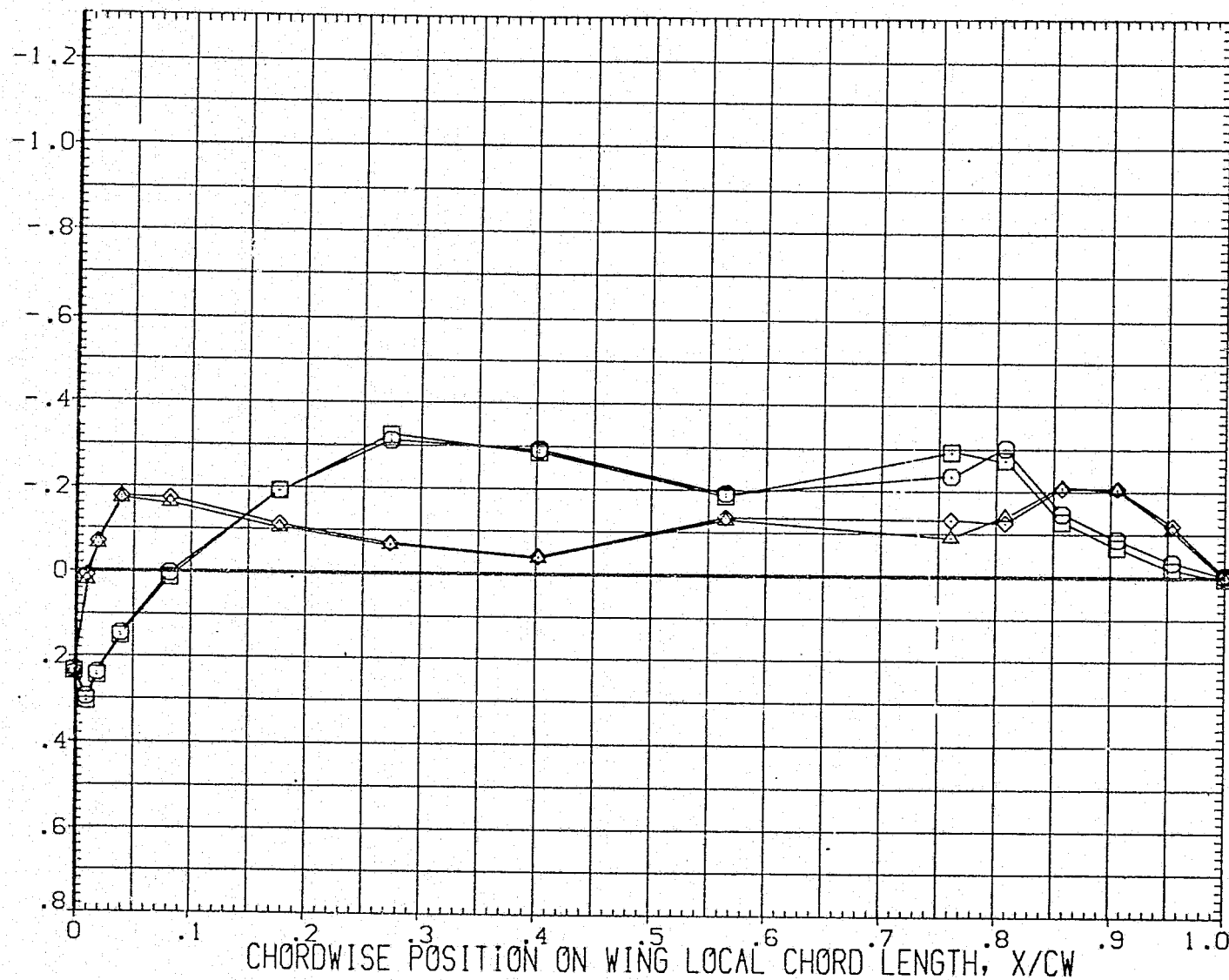


FIG. 81 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 0.6
 ALPHA0= -4.000 BETA0 = .000 Y/BW = .427 PAGE 1326

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(1ETU06)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	.600	8.000	2.250	4.000
(1ETU13)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.600	8.000	2.250	.000
(1ETL06)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	.600	8.000	2.250	4.000
(1ETL13)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.600	8.000	2.250	.000

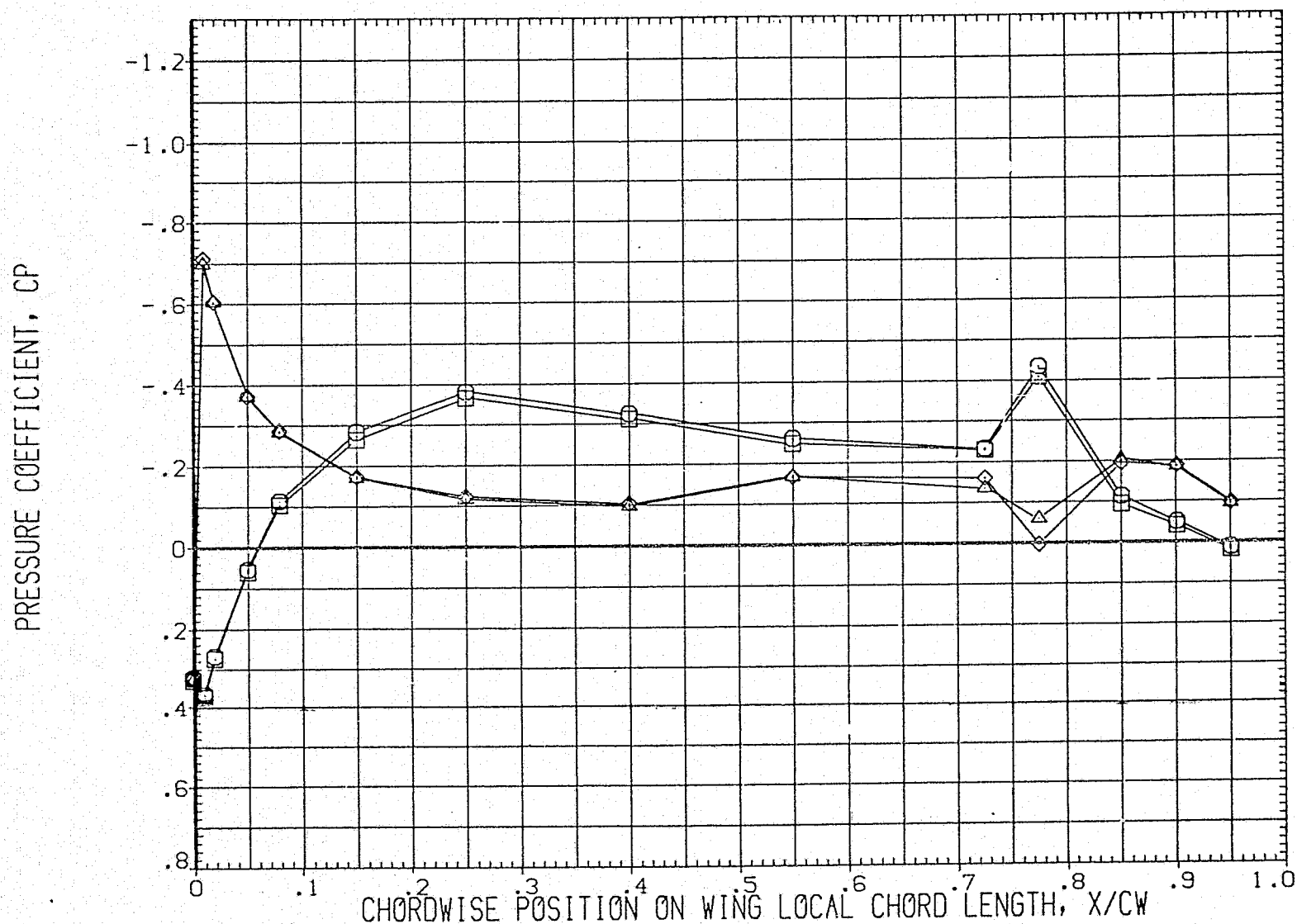


FIG. 81 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 0.6

ALPHA0= -4.000 BETA0 = .000 Y/BW = .534

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(IETU06)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	.600	8.000	2.250	4.000
(IETU13)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.600	8.000	2.250	.000
(IETL06)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	.600	8.000	2.250	4.000
(IETL13)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.600	8.000	2.250	.000

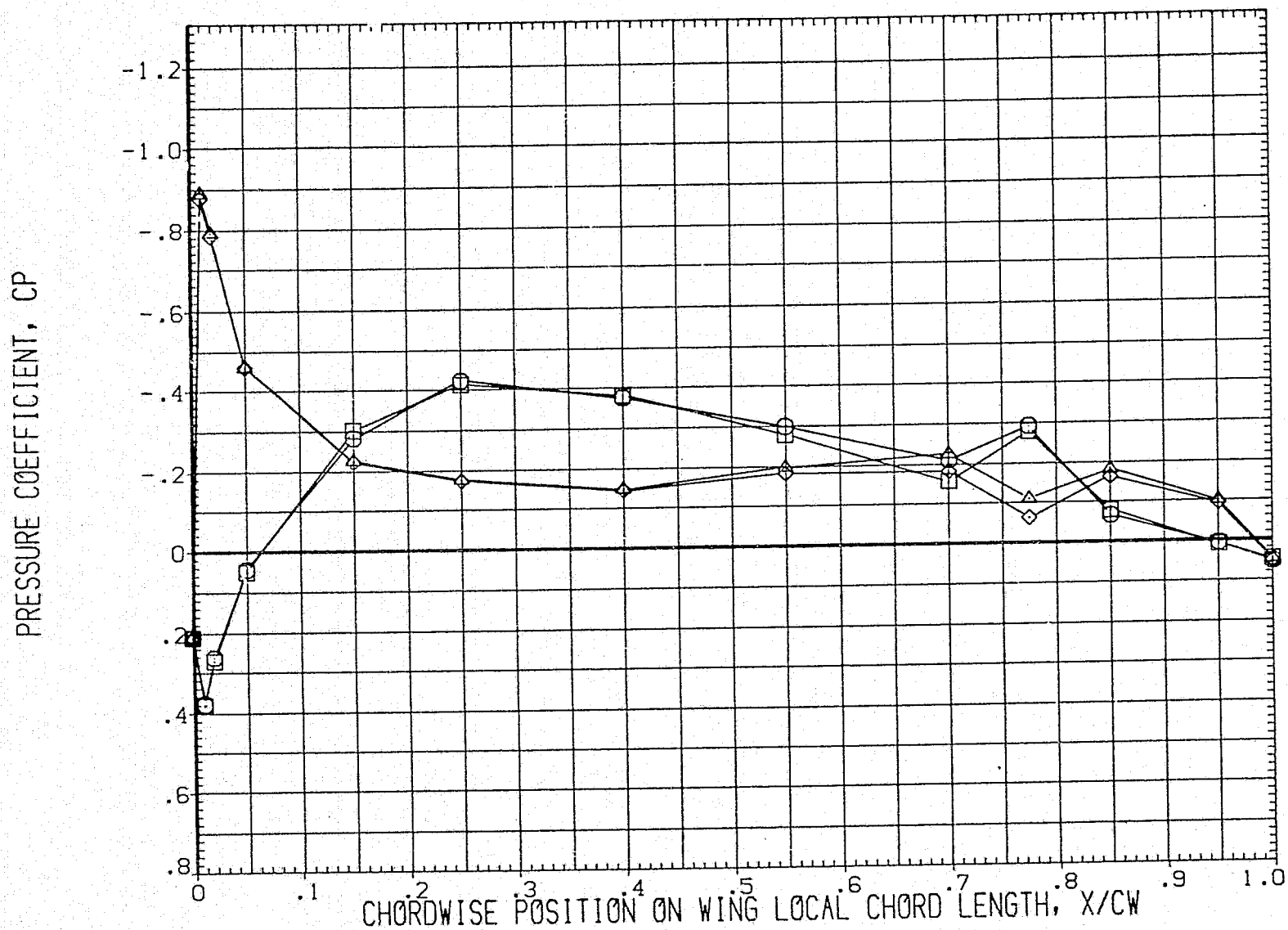


FIG. 81 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 0.6
 ALPHA0= -4.000 BETA0 = .000 Y/BW = .673 PAGE 1328

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(IETU06)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	.600	8.000	2.250	4.000
(IETU13)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.600	8.000	2.250	.000
(IETL06)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	.600	8.000	2.250	4.000
(IETL13)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.600	8.000	2.250	.000

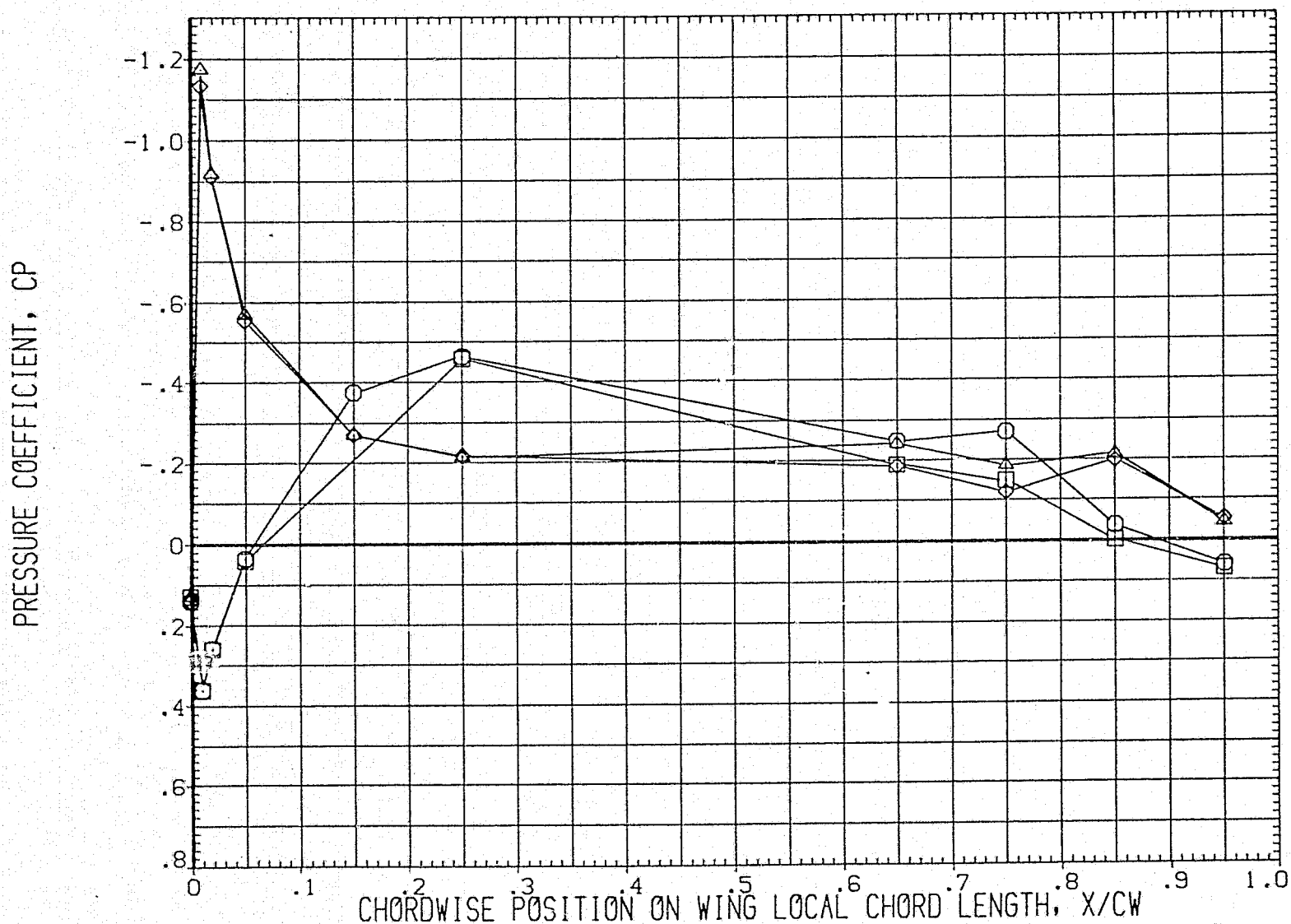


FIG. 81 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 0.6

ALPHA0= -4.000 BETA0 = .000 Y/BW = .780

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-IB	RN/FT	ELV-OB
(IETU06)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	.600	8.000	2.250	4.000
(IETU13)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.600	8.000	2.250	.000
(IETL06)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	.600	8.000	2.250	4.000
(IETL13)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.600	8.000	2.250	.000

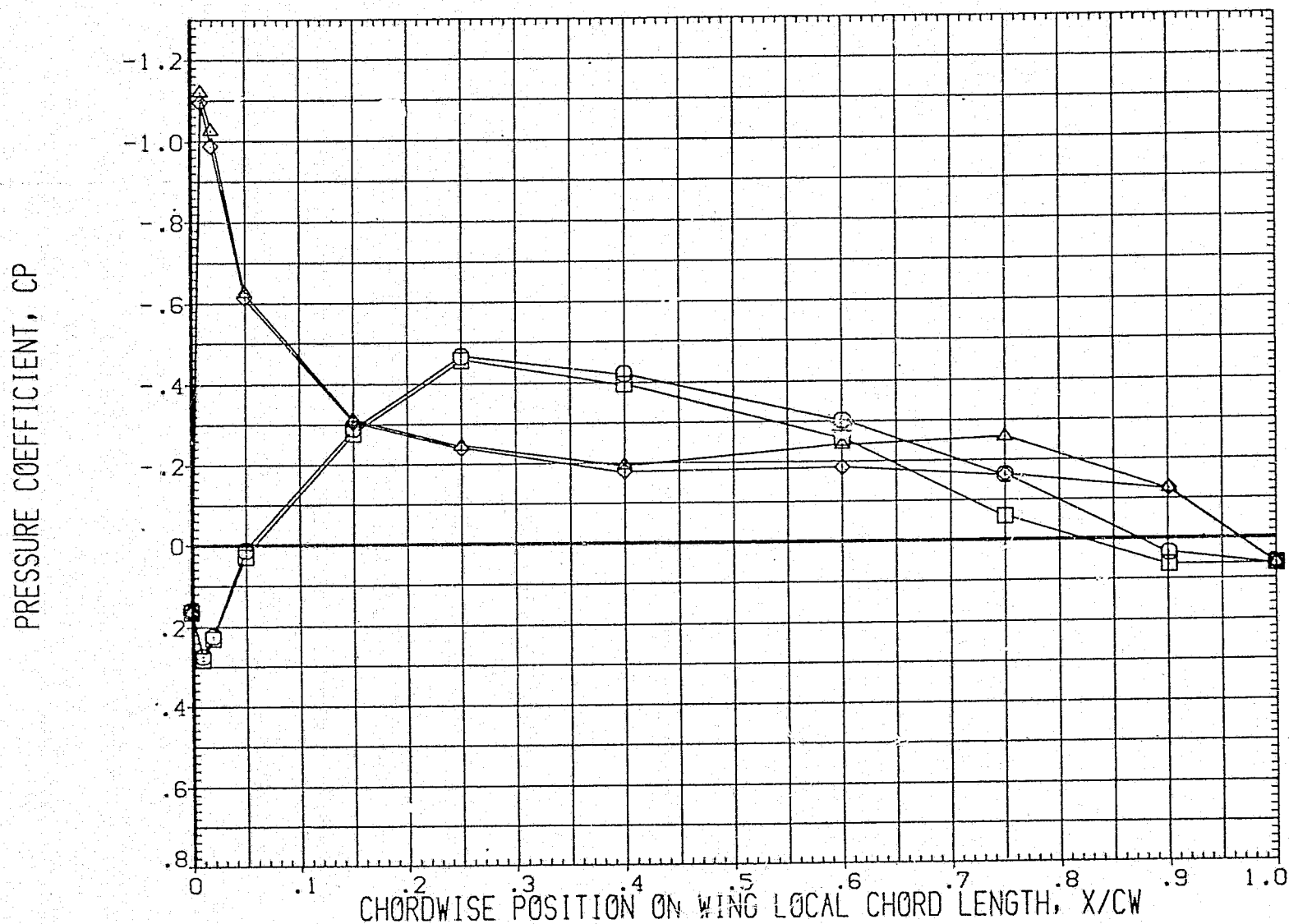


FIG. 81 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 0.6

ALPHA0= -4.000 BETA0 = .000 Y/BW = .887

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-IB	RN/FT	ELV-OB
(IETU06)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	.600	8.000	2.250	4.000
(IETU13)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.600	8.000	2.250	.000
(IETL06)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	.600	8.000	2.250	4.000
(IETL13)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.600	8.000	2.250	.000

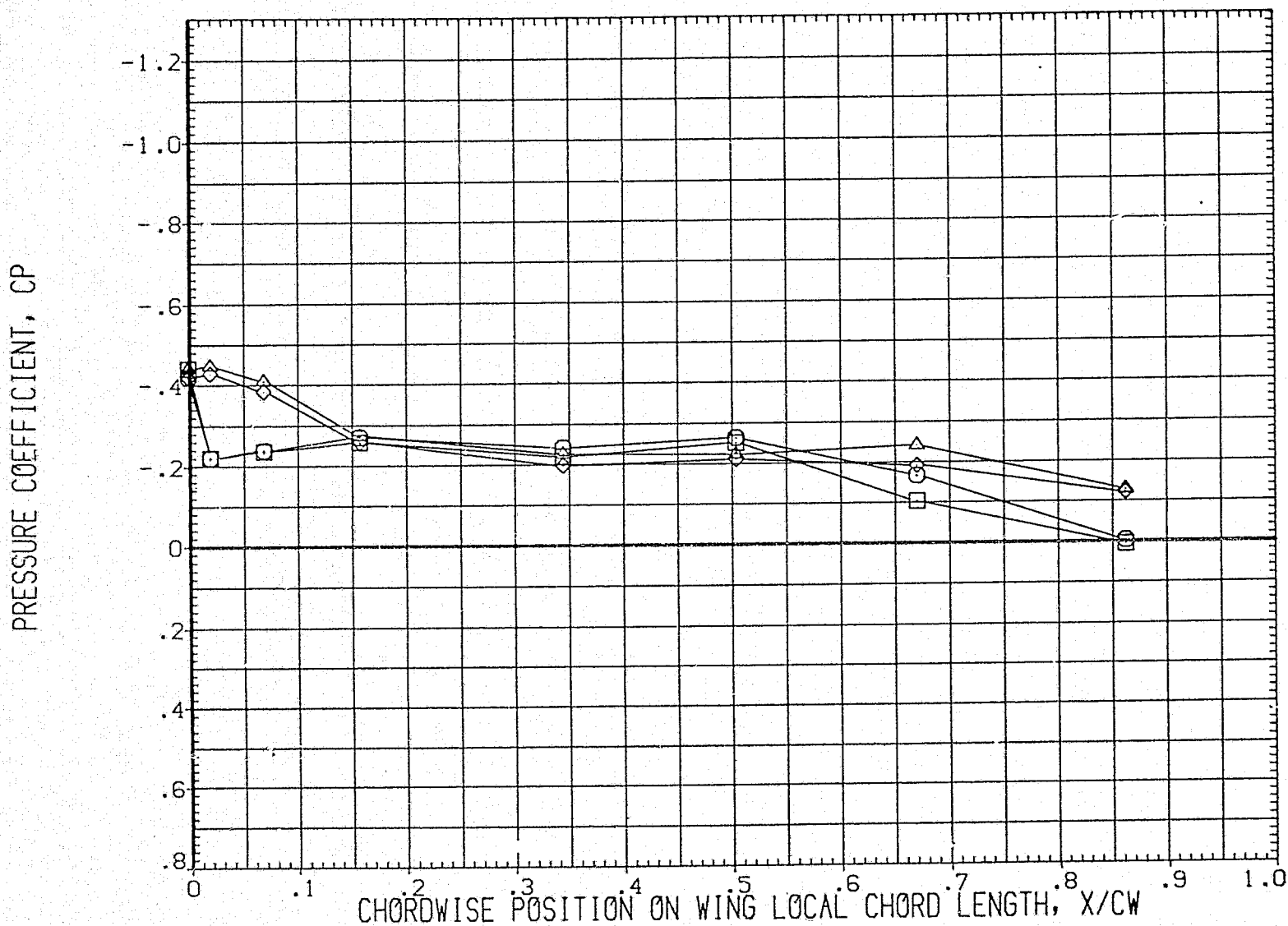


FIG. 81 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 0.6

ALPHA0= -4.000 BETA0 = .000 Y/BW = .972

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-18	RN/FT	ELV-08
(IETU06)	ARC11-019 IAB1 LVAP(ELHL UNSEALED) LEFT WING TOP	.600	8.000	2.250	4.000
(IETU13)	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING TOP	.600	8.000	2.250	.000
(IETL06)	DATA NOT AVAILABLE	.600	8.000	2.250	4.000
(IETL13)	DATA NOT AVAILABLE	.600	8.000	2.250	.000

PRESSURE COEFFICIENT, CP

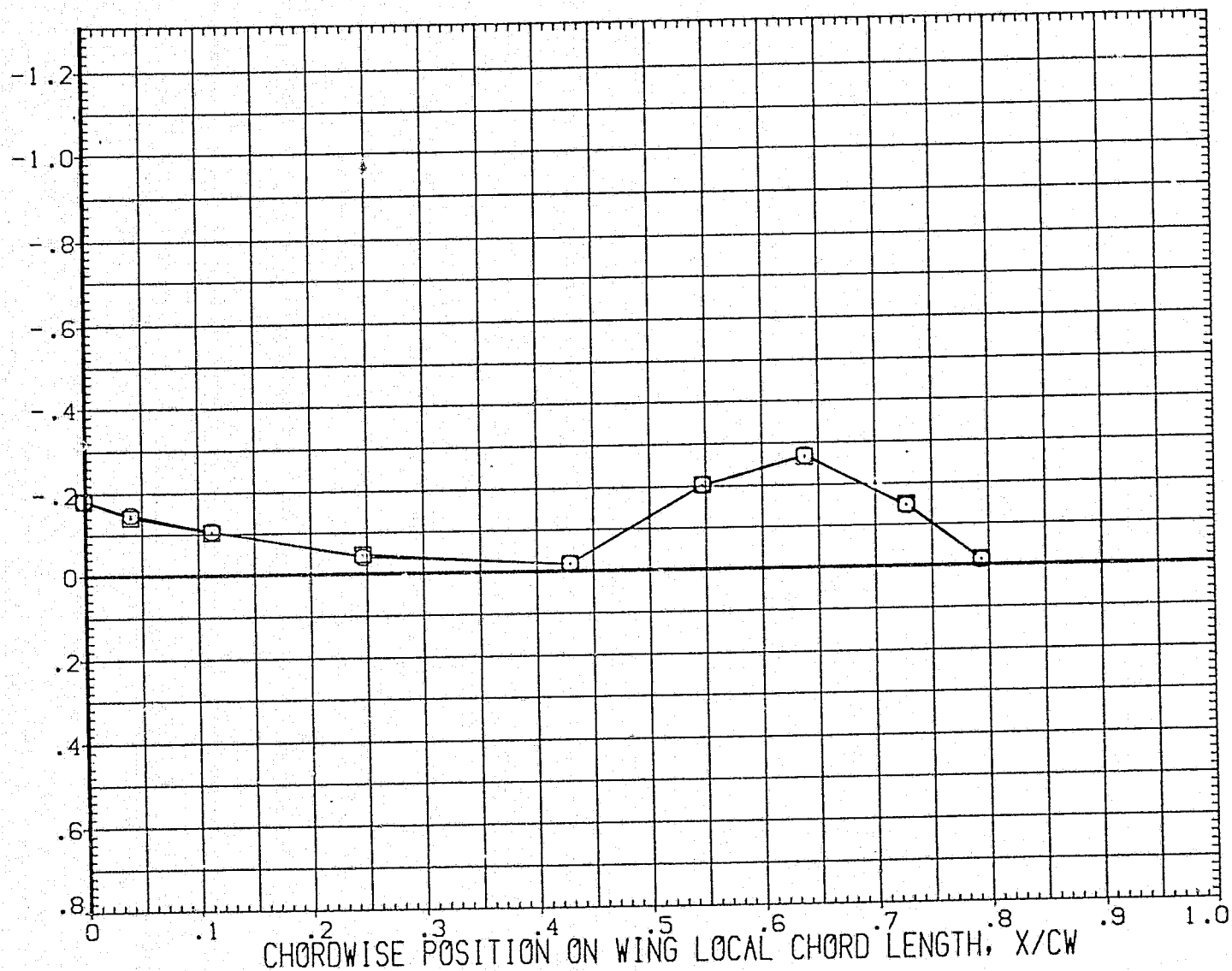


FIG. 81 WING CHORDWISE PRESS. DIST., ELEVON EFFECT. SPDBRK= 0. MACH = 0.6

ALPHA0= .000 BETA0 = .000 Y/BW = .235

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(IETU06)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	.600	8.000	2.250	4.000
(IETU13)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.600	8.000	2.250	.000
(IETL06)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	.600	8.000	2.250	4.000
(IETL13)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.600	8.000	2.250	.000

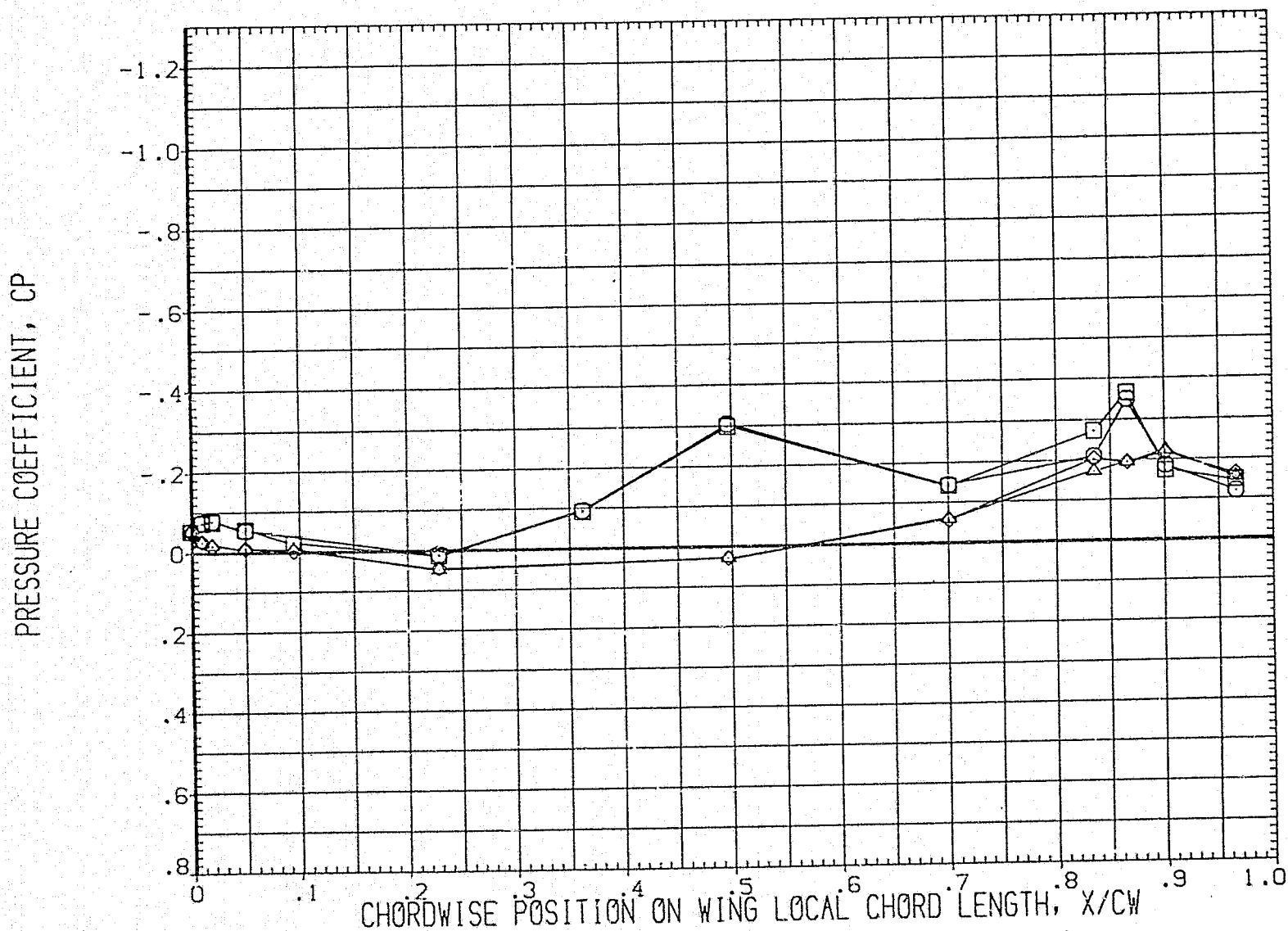


FIG. 81 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 0.6

ALPHA0 = .000 BETA0 = .000 Y/BW = .299

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(IETU06)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	.600	8.000	2.250	4.000
(IETU13)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.600	8.000	2.250	.000
(IETL06)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	.600	8.000	2.250	4.000
(IETL13)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.600	8.000	2.250	.000

PRESSURE COEFFICIENT, CP

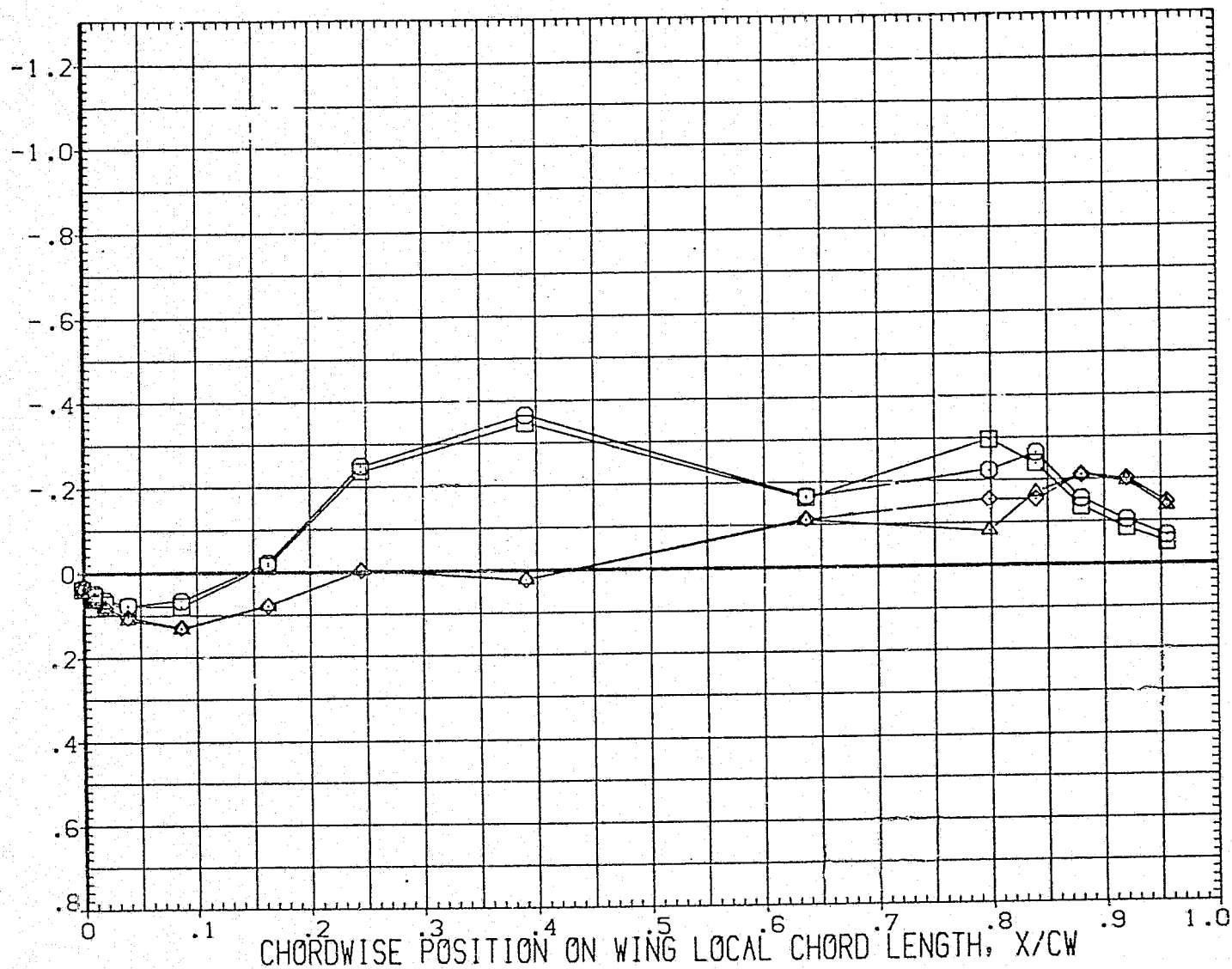


FIG. 81 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 0.6

ALPHA0= .000 BETA0 = .000 Y/BW = .364

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-18	RN/FT	ELV-08
(1ETU06)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	.600	8.000	2.250	4.000
(1ETU13)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.600	8.000	2.250	.000
(1ETL06)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	.600	8.000	2.250	4.000
(1ETL13)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.600	8.000	2.250	.000

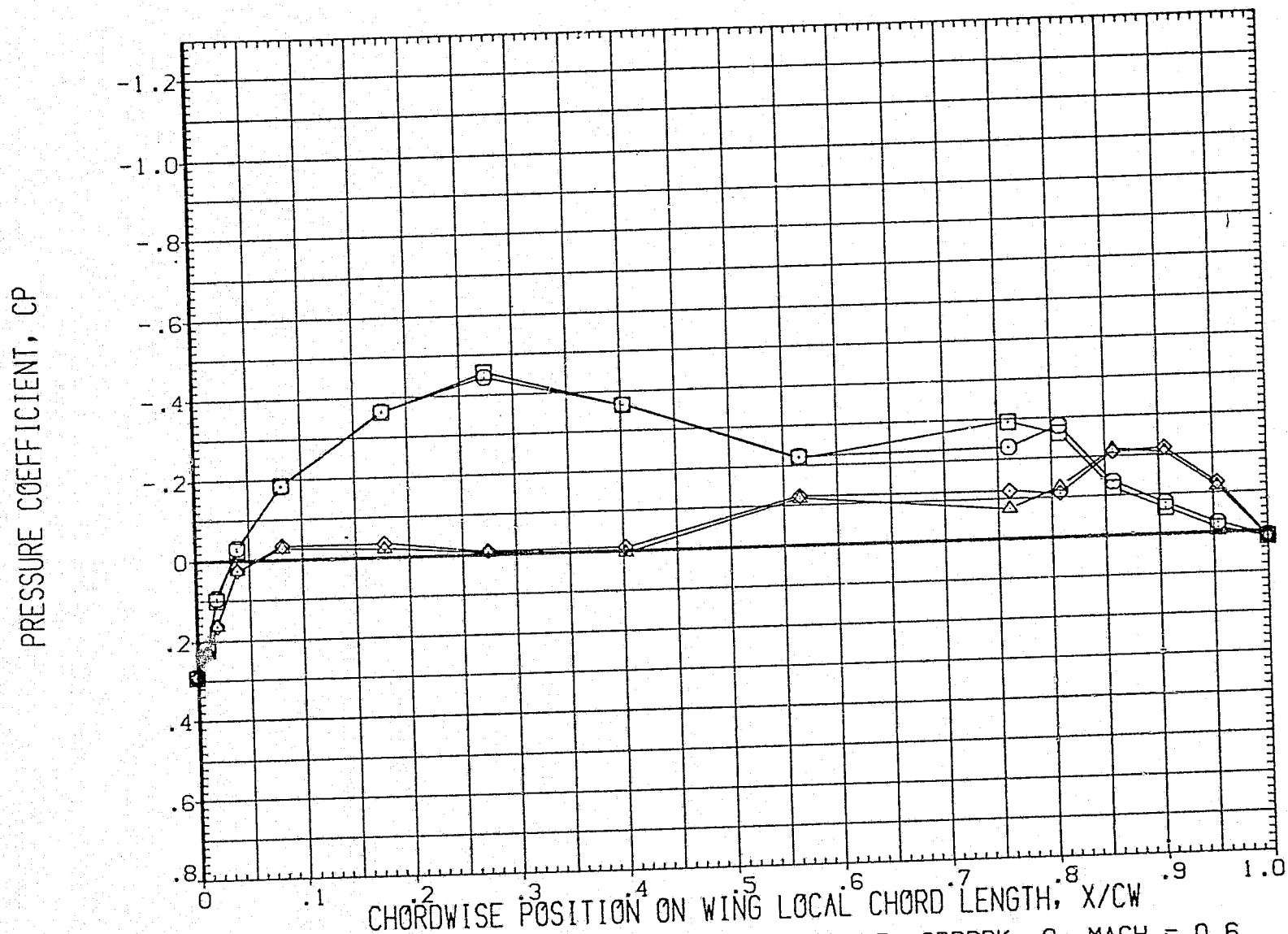


FIG. 81 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 0.6
 ALPHA0= .000 BETA0 = .000 Y/BW = .427
 PAGE 1335

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-IB	RN/FT	ELV-OB
(IETU06)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	.600	8.000	2.250	4.000
(IETU13)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.600	8.000	2.250	.000
(IETL06)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	.600	8.000	2.250	4.000
(IETL13)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.600	8.000	2.250	.000

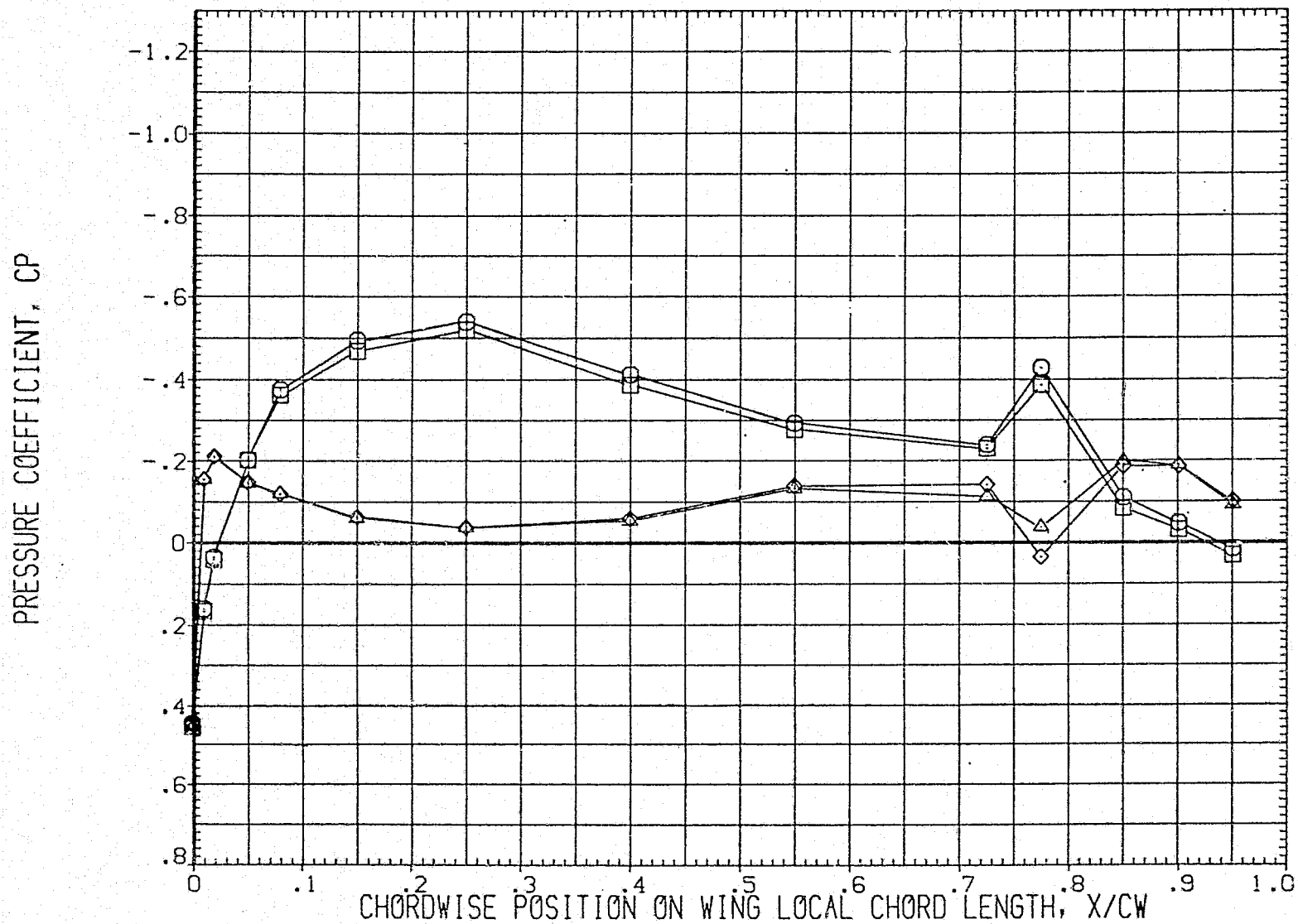


FIG. 81 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 0.6

ALPHA0= .000 BETA0 = .000 Y/BW = .534

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(1ETU06)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	.600	8.000	2.250	4.000
(1ETU13)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.600	8.000	2.250	.000
(1ETL06)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	.600	8.000	2.250	4.000
(1ETL13)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.600	8.000	2.250	.000

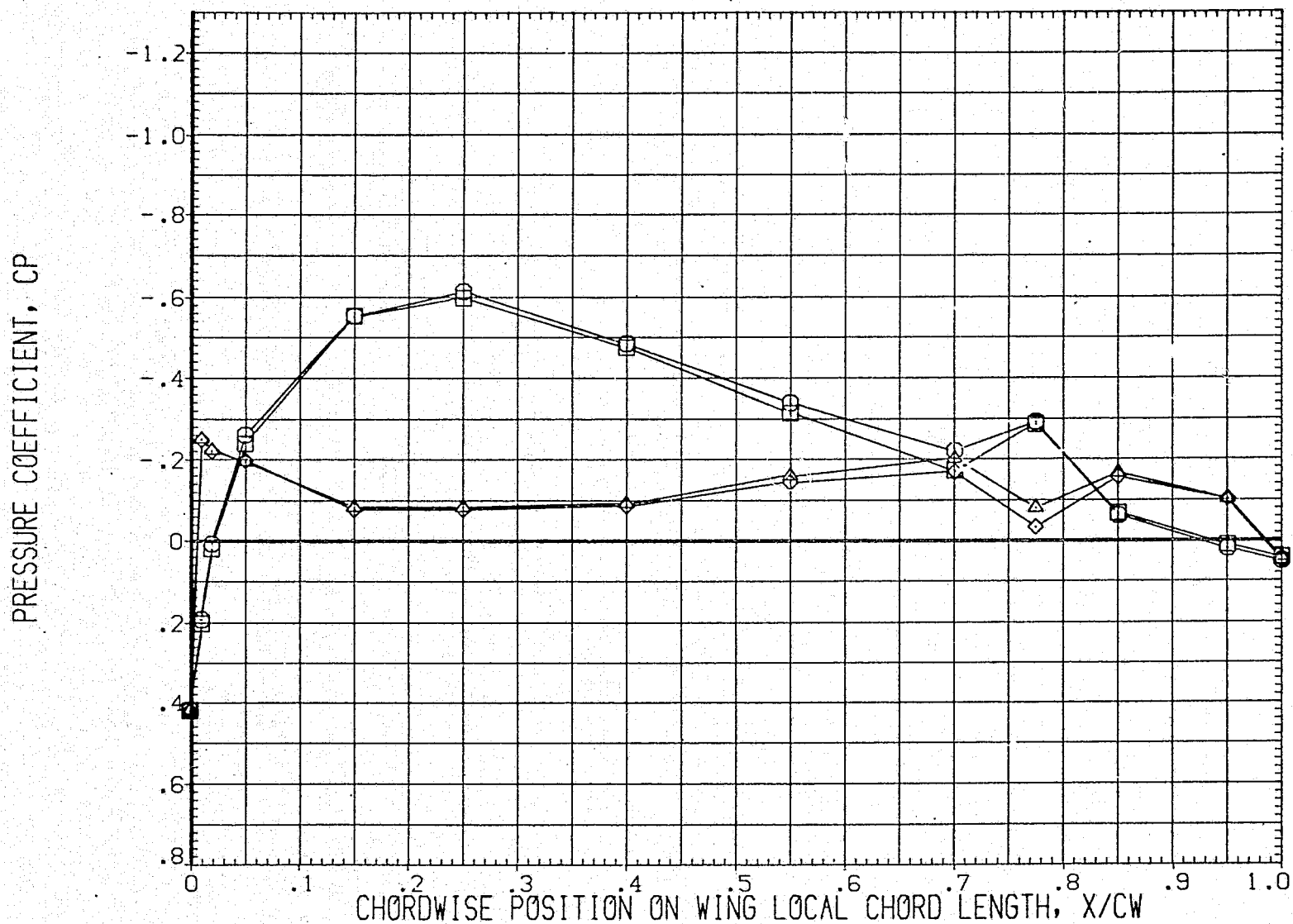


FIG. 81 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 0.6

ALPHA0= .000 BETA0 = .000 Y/BW = .673

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DATA SET SYMBOL CONFIGURATION DESCRIPTION

(1ETU06)	ARC11-019 1A81 LVAP(ELHL UNSEALED)	LEFT WING TOP
(1ETU13)	ARC11-019 1A81 LVAP(ELHL SEALED)	LEFT WING TOP
(1ETL06)	ARC11-019 1A81 LVAP(ELHL UNSEALED)	LEFT WING BOT.
(1ETL13)	ARC11-019 1A81 LVAP(ELHL SEALED)	LEFT WING BOT.

MACH	ELV-IB	RN/FT	ELV-OB
.600	8.000	2.250	4.000
.600	8.000	2.250	4.000
.600	8.000	2.250	4.000
.600	8.000	2.250	4.000

PRESSURE COEFFICIENT, CP

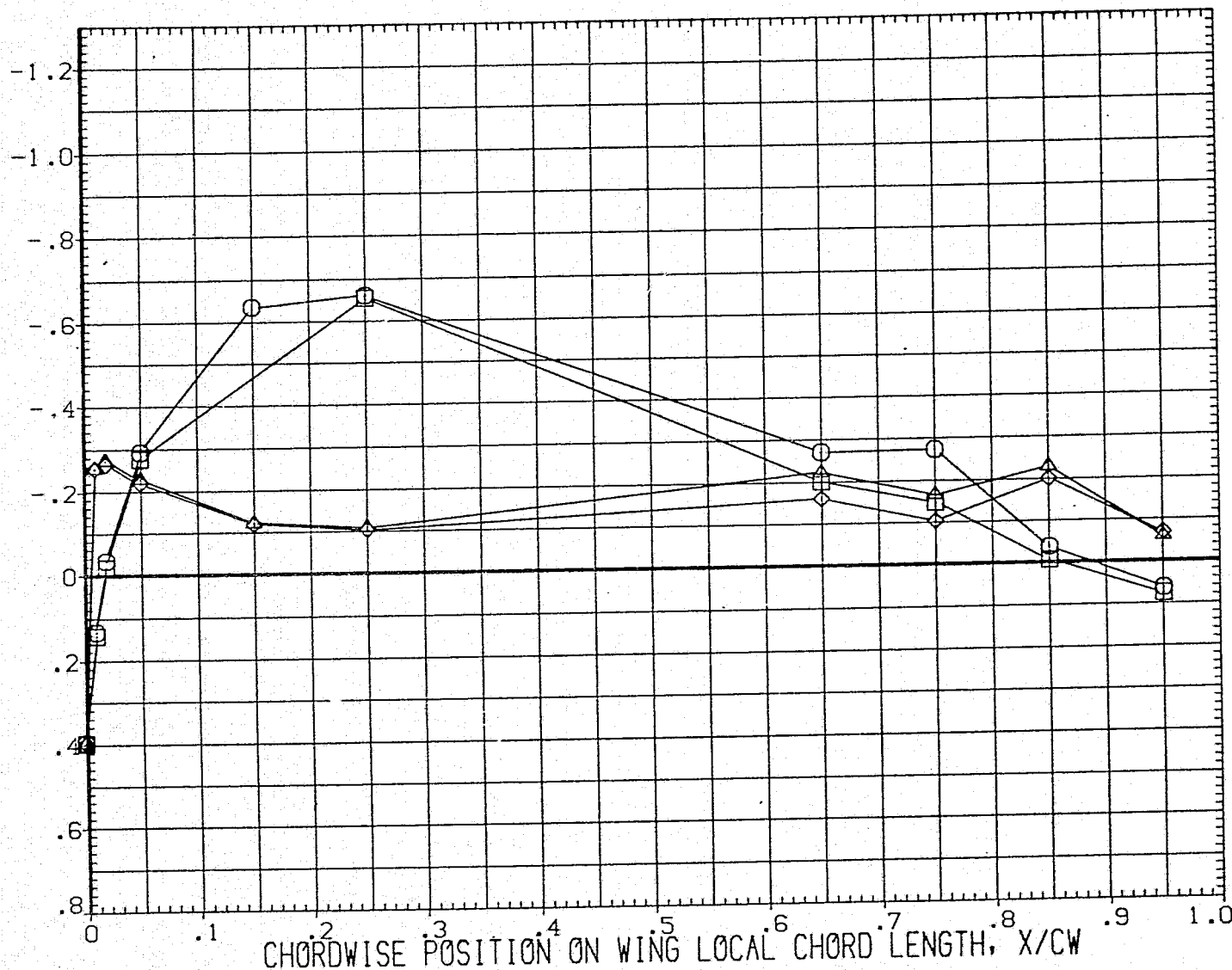


FIG. 81 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 0.6

ALPHA0= .000 BETA0 = .000 Y/BW = .780

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-IB	RN/FT	ELV-OB
(IETU06)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	.600	8.000	2.250	4.000
(IETU13)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.600	8.000	2.250	.000
(IETL06)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	.600	8.000	2.250	4.000
(IETL13)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.600	8.000	2.250	.000

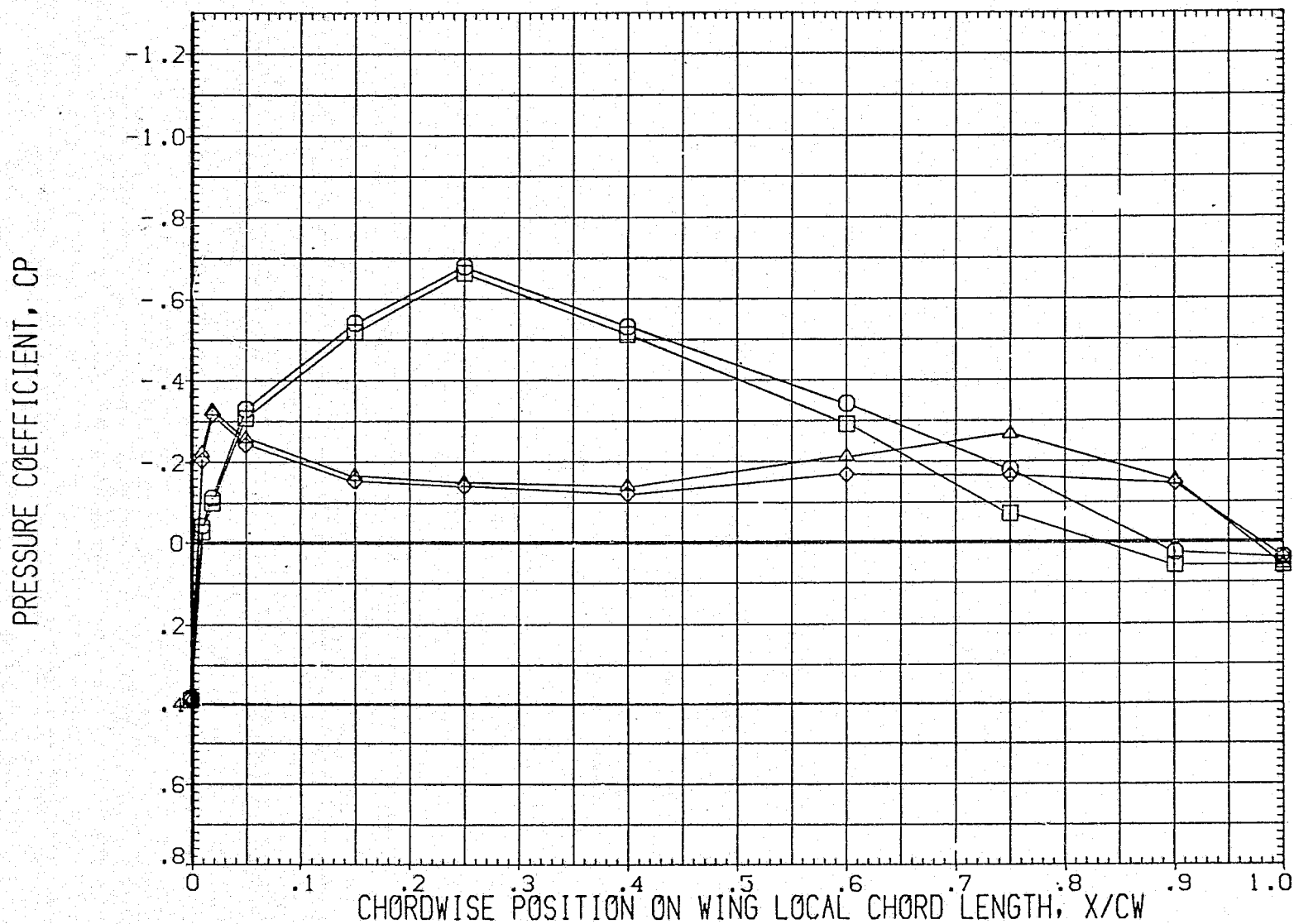


FIG. 81 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 0.6

ALPHA0= .000 BETA0 = .000 Y/BW = .887

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(IETU06)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	.600	8.000	2.250	4.000
(IETU13)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.600	8.000	2.250	.000
(IETL06)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	.600	8.000	2.250	4.000
(IETL13)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.600	8.000	2.250	.000

PRESSURE COEFFICIENT, CP

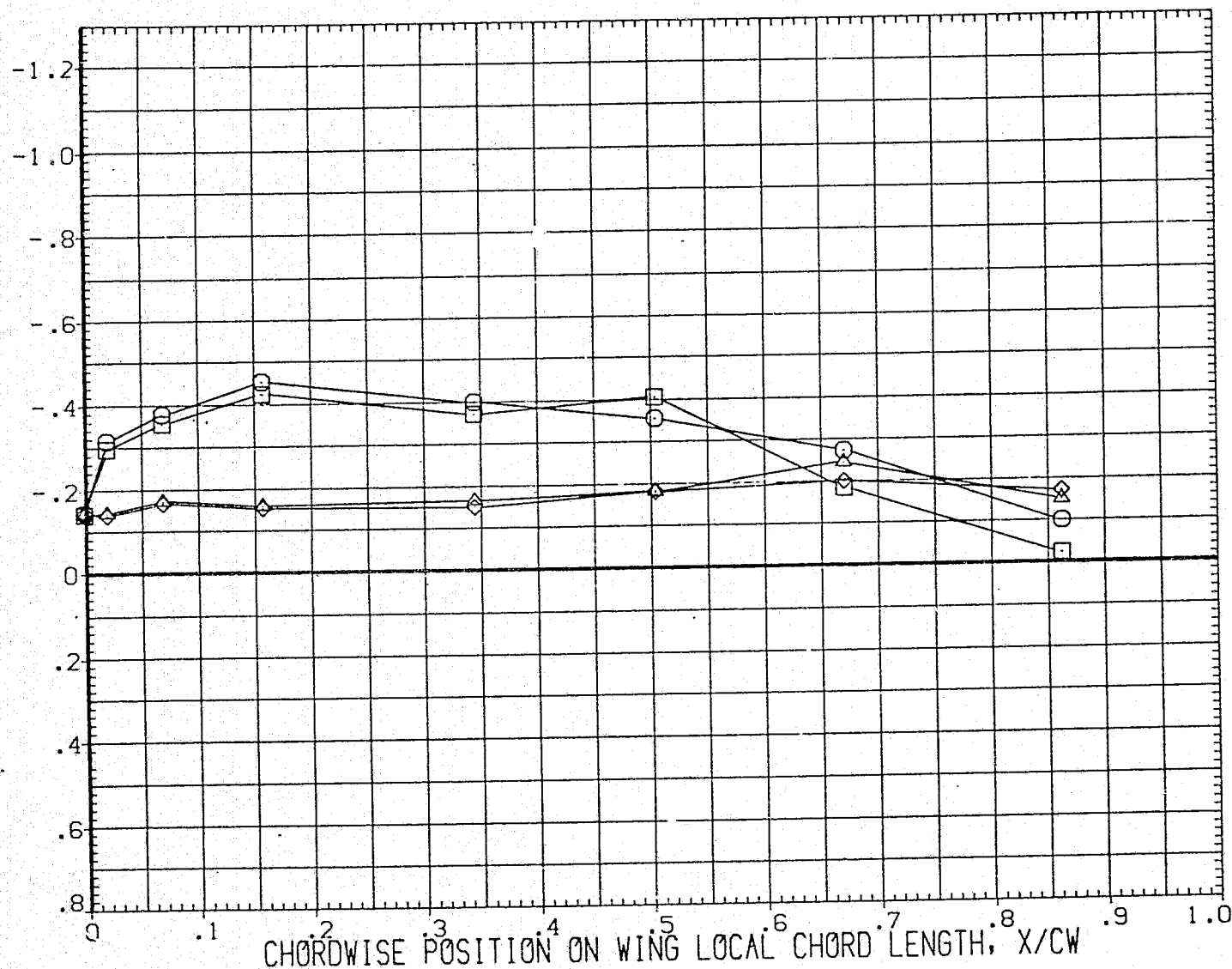


FIG. 81 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0. MACH = 0.6

ALPHA0= .000 BETA0 = .000 Y/BW = .972

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(IETU06)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP
(IETU13)	ARC11-019 1A91 LVAP(ELHL SEALED) LEFT WING TOP
(IETL06)	DATA NOT AVAILABLE
(IETL13)	DATA NOT AVAILABLE

MACH	ELV-IB	RN/FT	ELV-OB
.600	8.000	2.250	4.000
.600	8.000	2.250	.000
.600	8.000	2.250	4.000
.600	8.000	2.250	.000

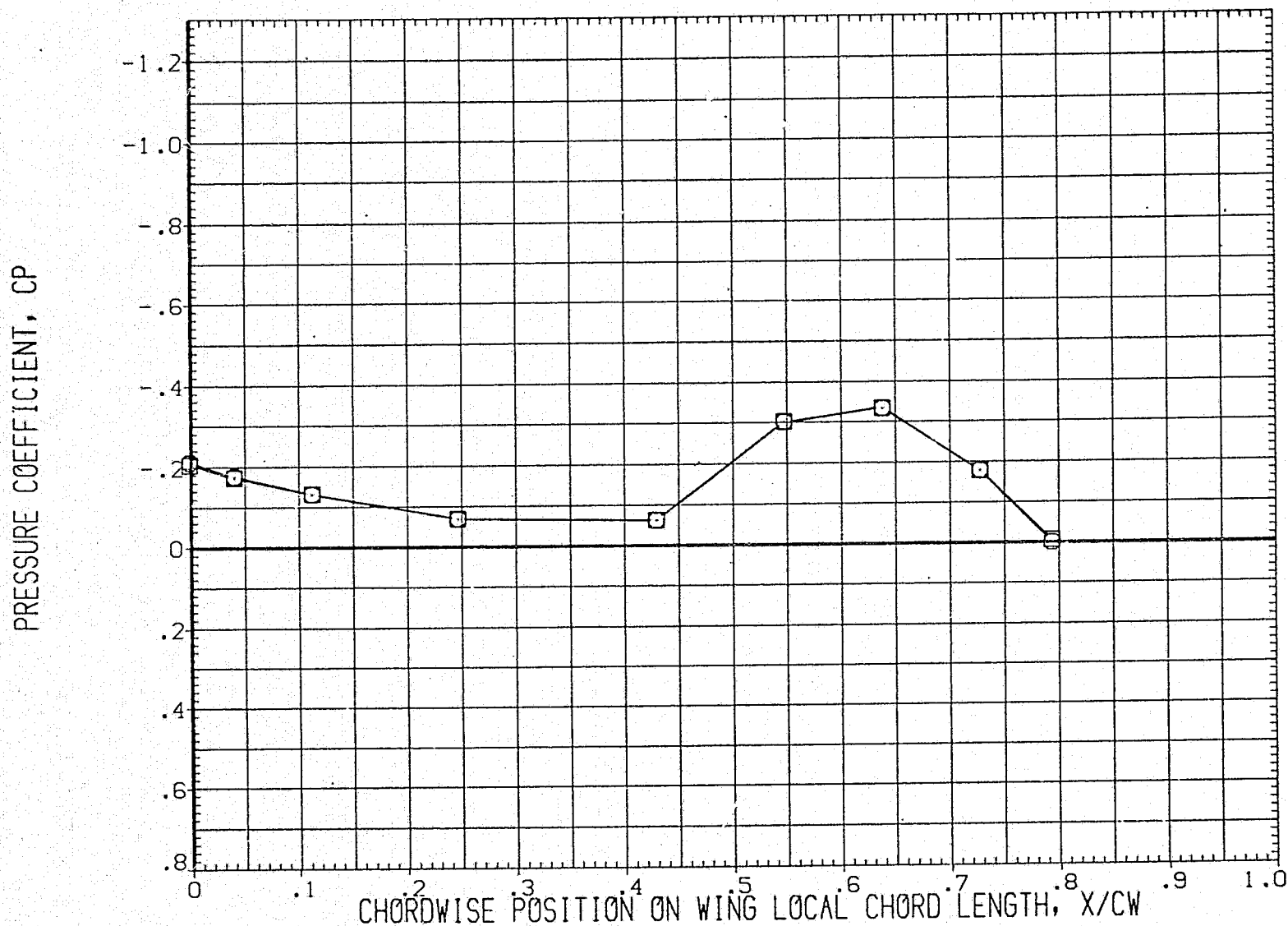


FIG. 81 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 0.6

ALPHA0= 4.000 BETA0 = .000 Y/BW = .235

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-IB	RN/FT	ELV-OB
(IETU05)	□	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	.600	8.000	2.250	4.000
(IETU13)	□	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.600	8.000	2.250	.000
(IETL06)	◇	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	.600	8.000	2.250	4.000
(IETL13)	△	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.600	8.000	2.250	.000

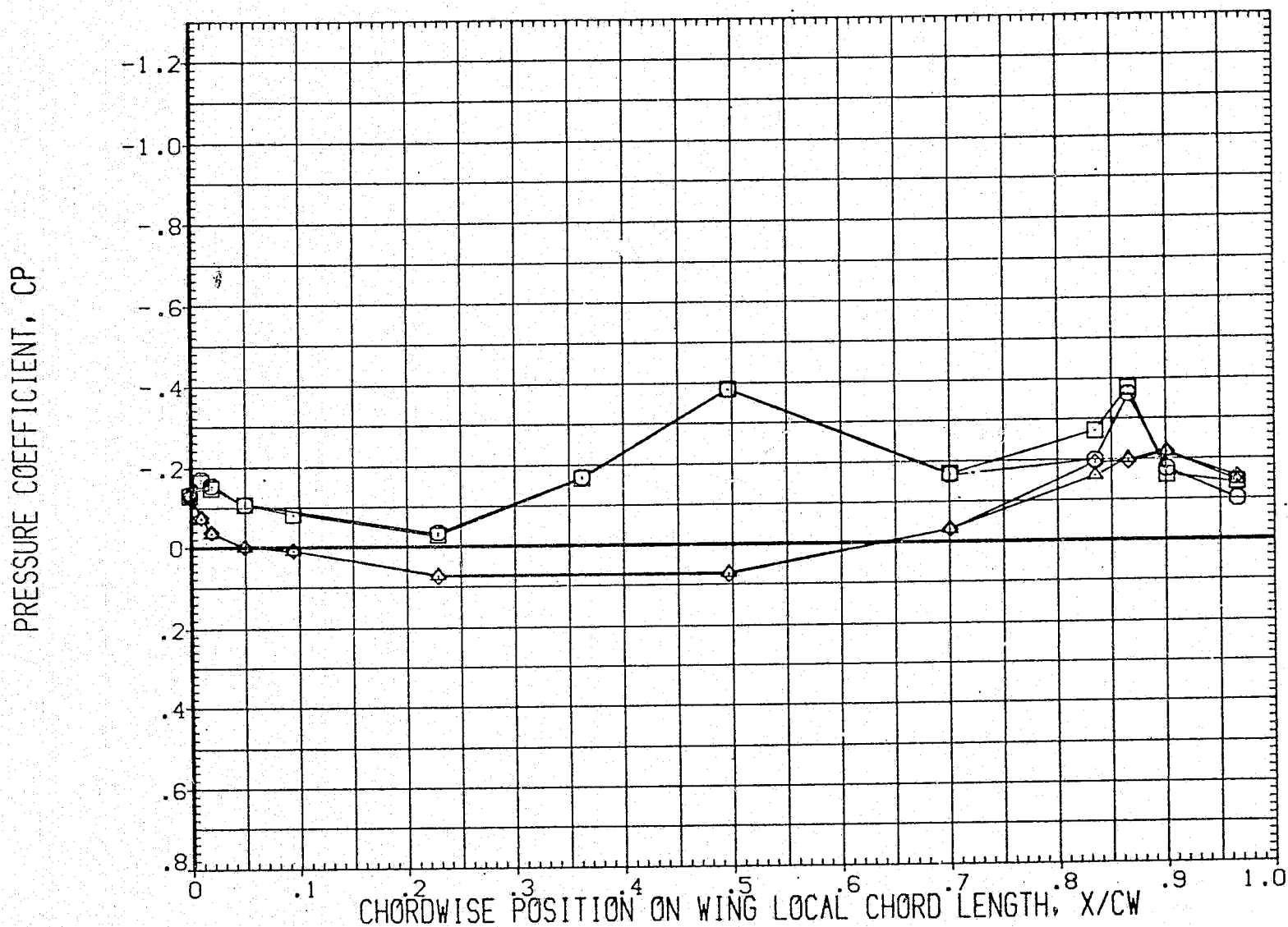


FIG. 81 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 0.6
 ALPHA0= 4.000 BETA0 = .000 Y/BW = .299 PAGE 1342

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(1ETU06)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	.600	8.000	2.250	4.000
(1ETU13)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.600	8.000	2.250	.000
(1ETL06)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	.600	8.000	2.250	4.000
(1ETL13)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.600	8.000	2.250	.000

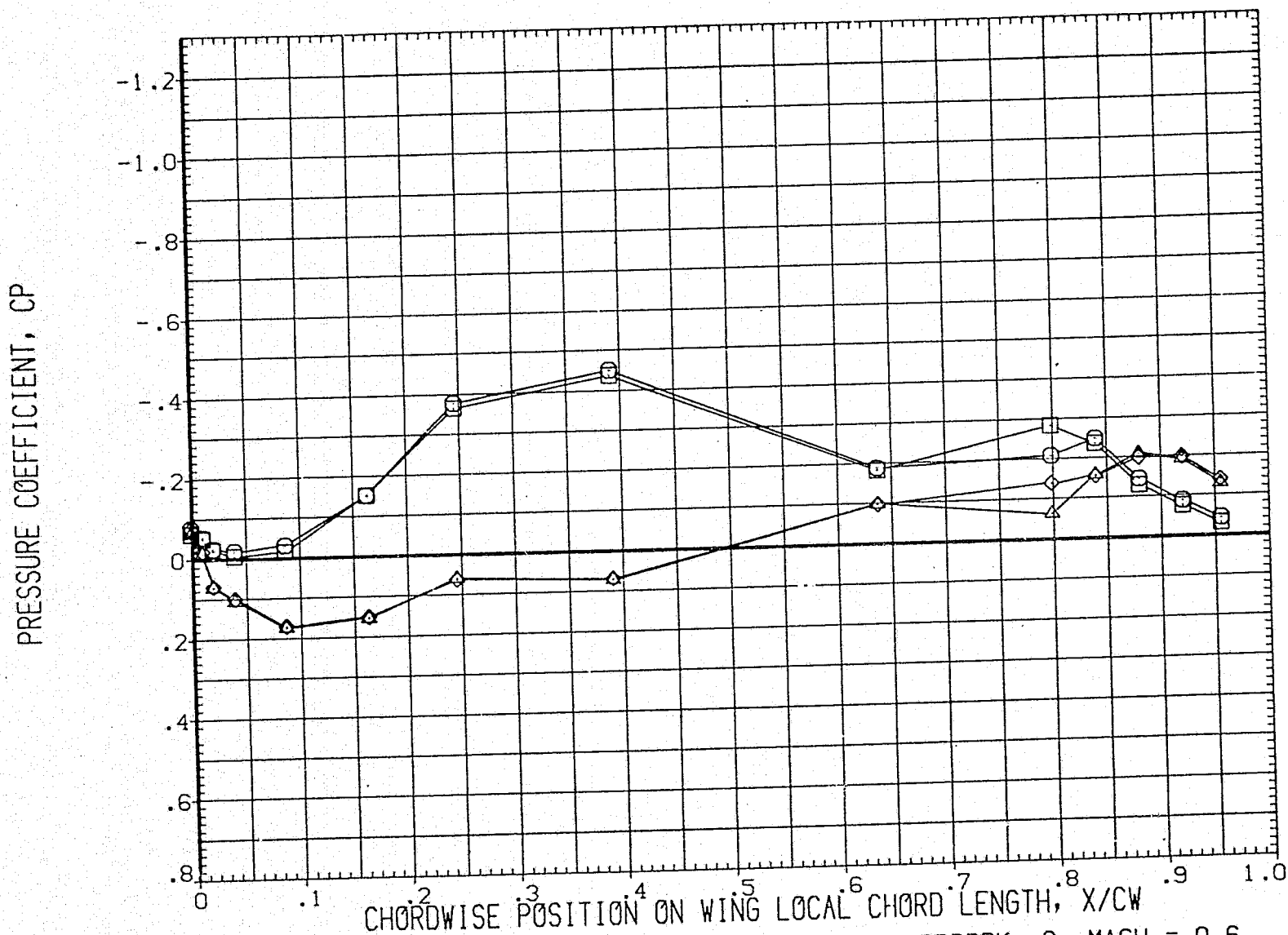


FIG. 81 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 0.6
 ALPHA0= 4.000 BETA0 = .000 Y/BW = .364

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-IB	RN/FT	ELV-OB
(IETU06)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	.600	8.000	2.250	4.000
(IETU13)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.600	8.000	2.250	.000
(IETL06)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	.600	8.000	2.250	4.000
(IETL13)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.600	8.000	2.250	.000

PRESSURE COEFFICIENT, CP

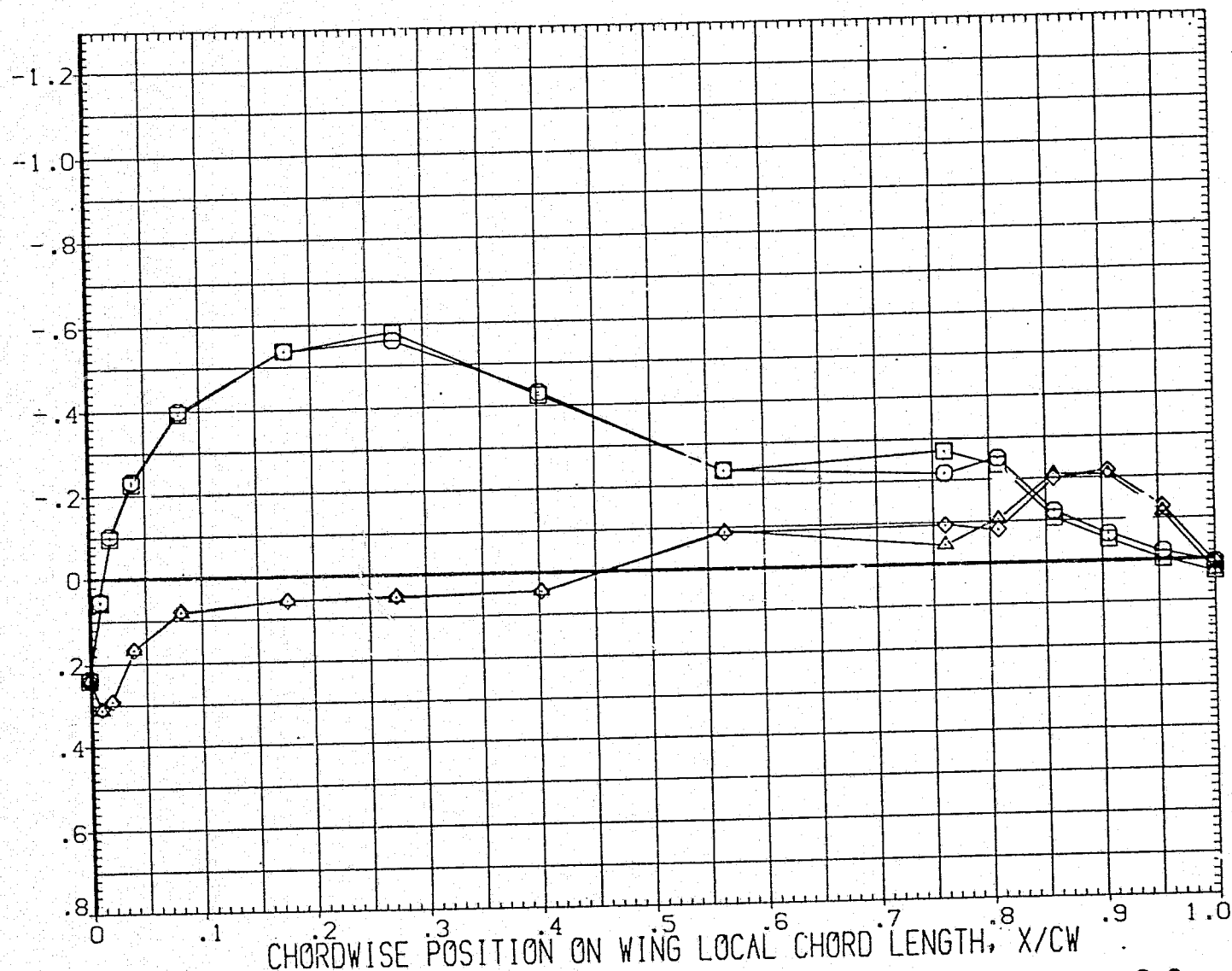


FIG. 81 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 0.6
 ALPHA0= 4.000 BETA0 = .000 Y/BW = .427

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(IETU06)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	.600	8.000	2.250	4.000
(IETU13)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.600	8.000	2.250	.000
(IETL06)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	.600	8.000	2.250	4.000
(IETL13)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.600	8.000	2.250	.000

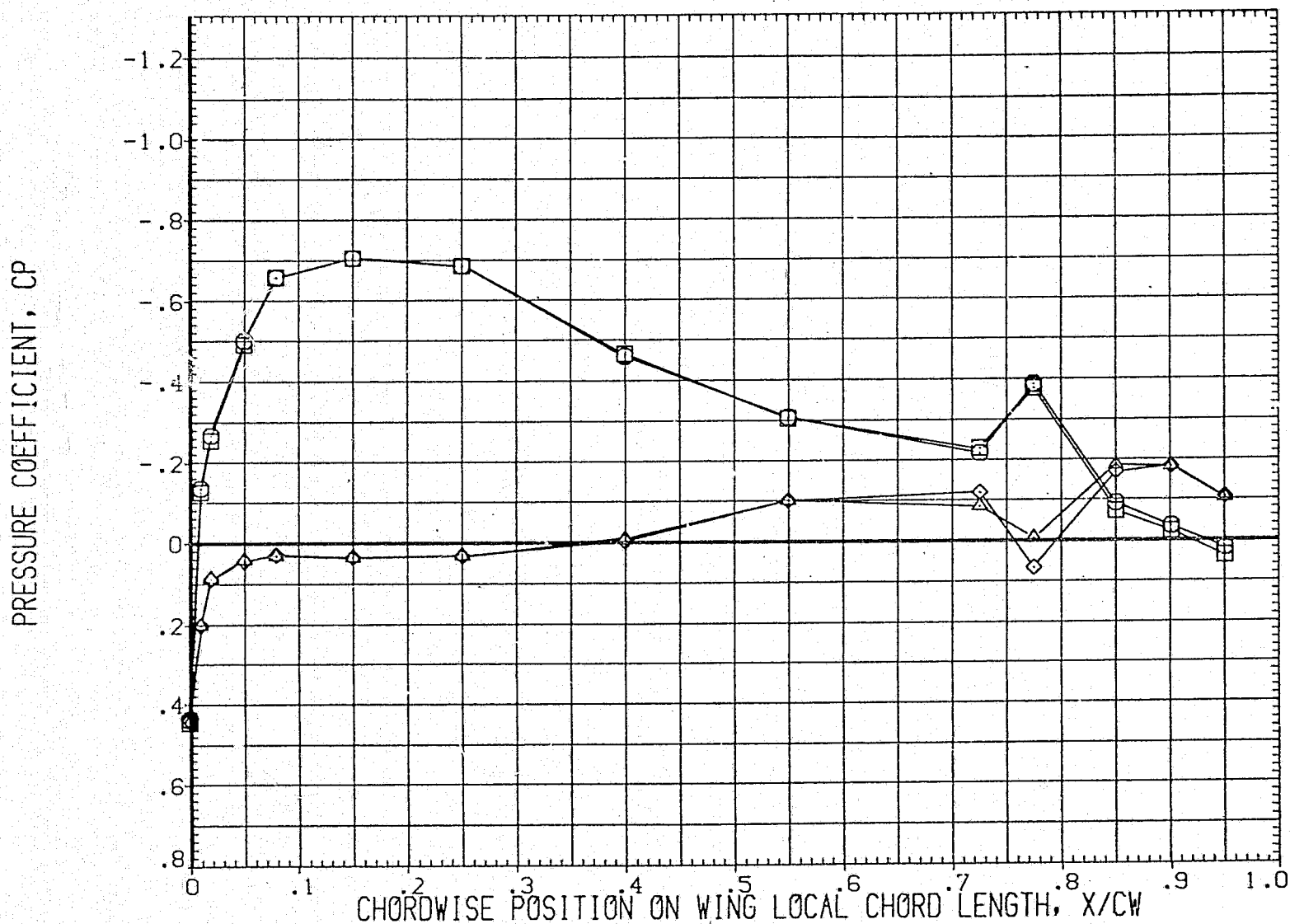


FIG. 81 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 0.6

ALPHA0= 4.000 BETA0 = .000 Y/BW = .534

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(IETU06)	□	ARC11-019 IAB1 LVAP(ELHL UNSEALED) LEFT WING TOP
(IETU13)	□	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING TOP
(IETL06)	◇	ARC11-019 IAB1 LVAP(ELHL UNSEALED) LEFT WING BOT.
(IETL13)	◇	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING BOT.

MACH	ELV-IB	RN/FT	ELV-OB
.600	8.000	2.250	4.000
.600	8.000	2.250	.000
.600	8.000	2.250	4.000
.600	8.000	2.250	.000

PRESSURE COEFFICIENT, CP

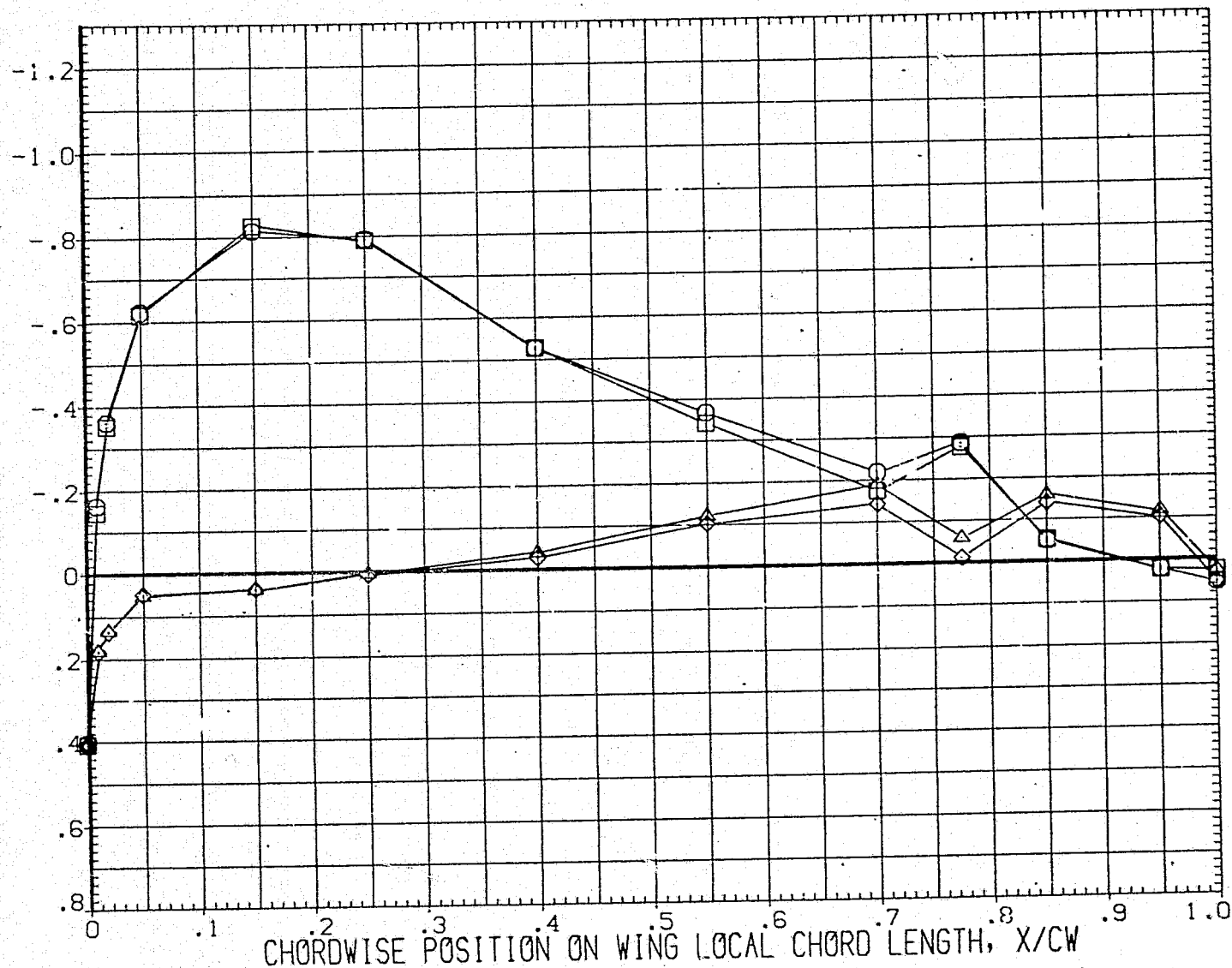


FIG. 81 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0. MACH = 0.6

ALPHA0= 4.000 BETA0 = .000 Y/BW = .673

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(1ETU06)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	.600	8.000	2.250	4.000
(1ETU13)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.600	8.000	2.250	.000
(1ETL06)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	.600	8.000	2.250	4.000
(1ETL13)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.600	8.000	2.250	.000

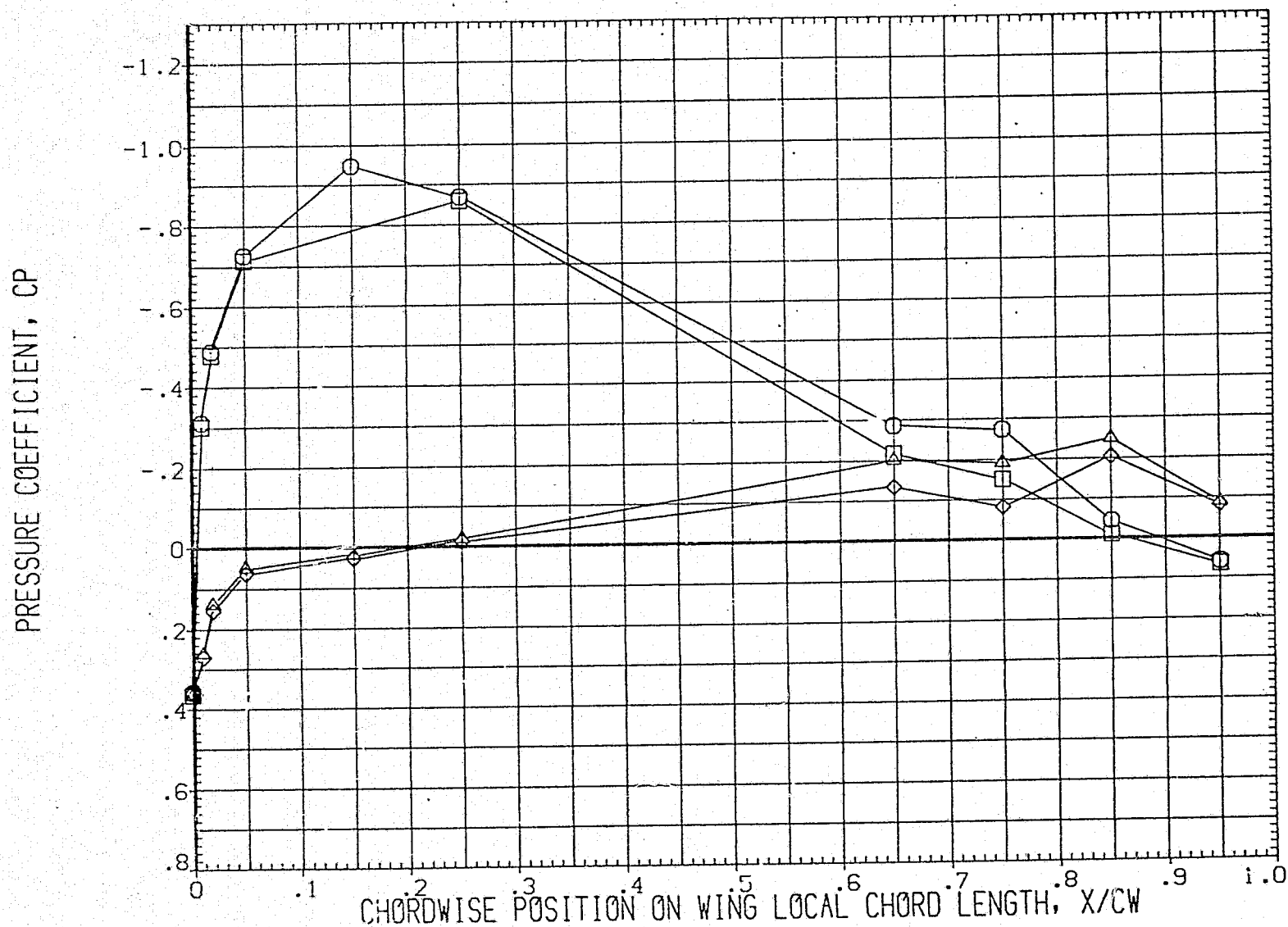


FIG. 81 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 0.6
 ALPHA0= 4.000 BETA0 = .000 Y/BW = .780

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-IB	RN/FT	ELV-OB
(IETU06)	ARC11-019 IAB1 LVAP(ELHL UNSEALED) LEFT WING TOP	.600	8.000	2.250	4.000
(IETU13)	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING TOP	.600	8.000	2.250	.000
(IETL06)	ARC11-019 IAB1 LVAP(ELHL UNSEALED) LEFT WING BOT.	.600	8.000	2.250	4.000
(IETL13)	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING BOT.	.600	8.000	2.250	.000

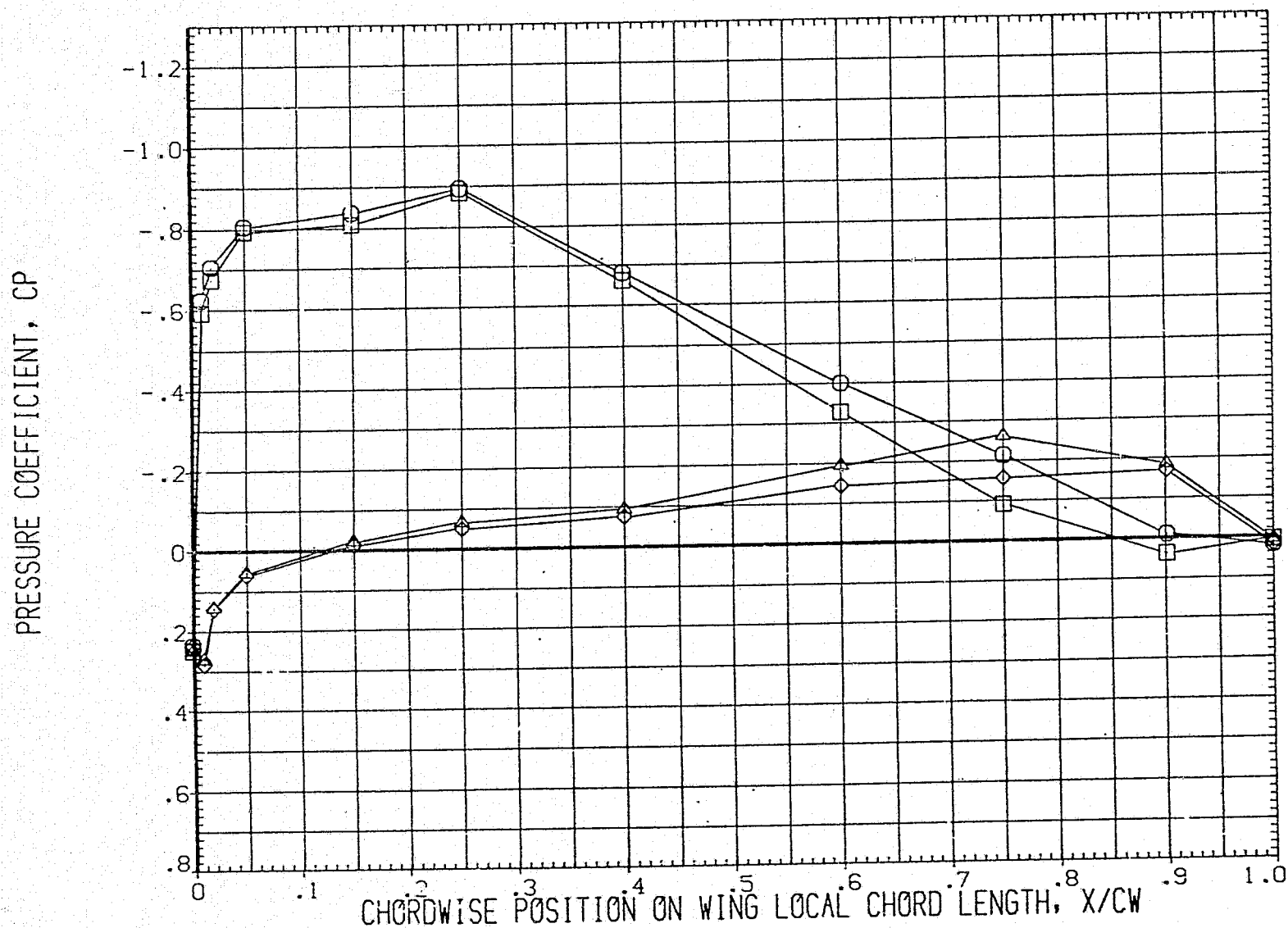


FIG. 81 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 0.6
 ALPHA0= 4.000 BETAC = .000 Y/BW = .887

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-IB	RN/FT	ELV-OB
(IETU06)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	.600	8.000	2.250	4.000
(IETU13)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.600	8.000	2.250	.000
(IETL06)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	.600	8.000	2.250	4.000
(IETL13)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.600	8.000	2.250	.000

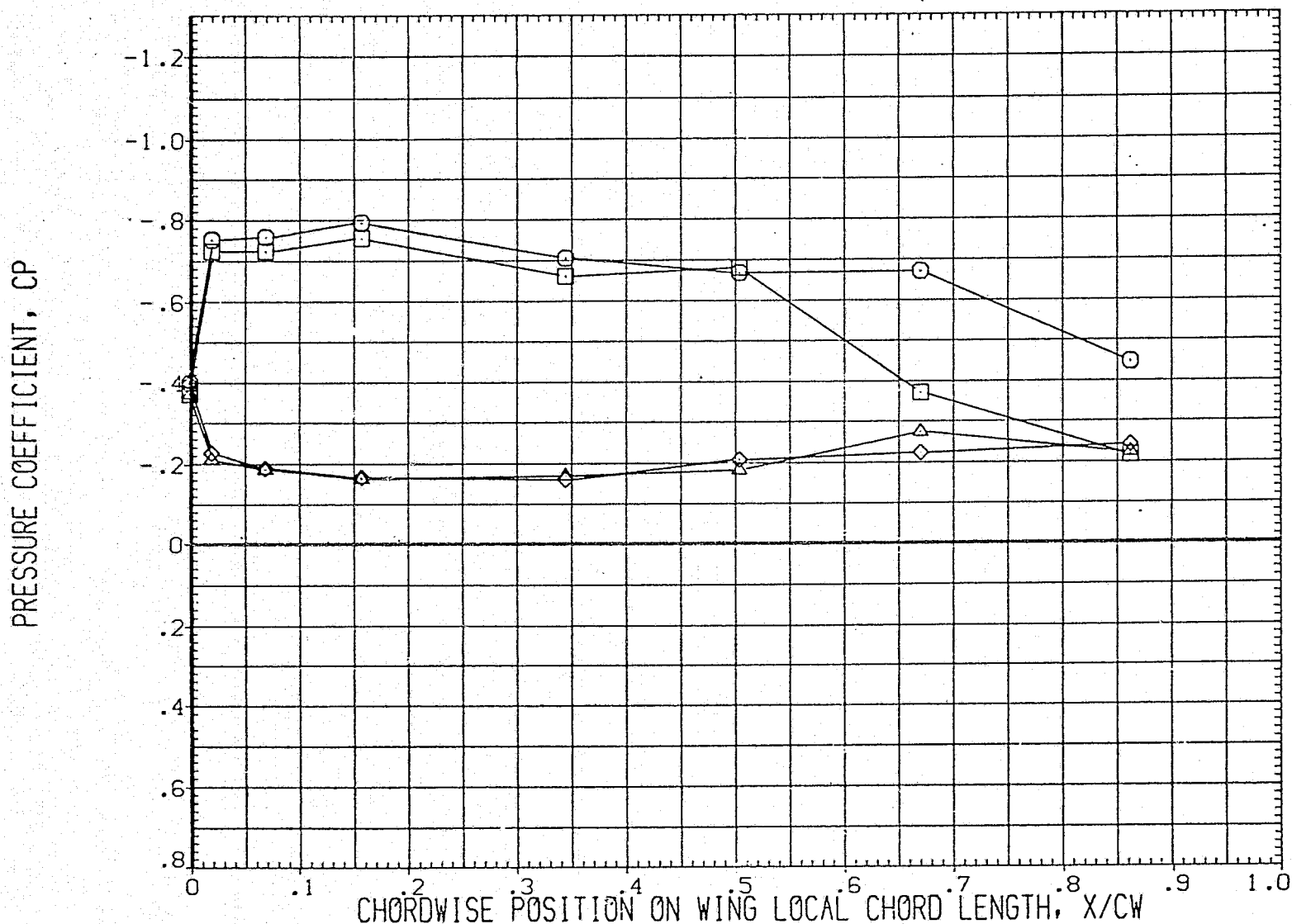


FIG. 81 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0. MACH = 0.6

ALPHA0= 4.000 BETA0 = .000 Y/BW = .972

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-18	RN/FT	ELV-08
(IETU26)	RC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.900	.000	2.250	.000
(IETU07)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	.900	8.000	2.250	4.000
(IETU17)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.900	10.000	2.250	4.000
(IETL26)	DATA NOT AVAILABLE	.900	.000	2.250	.000
(IETL07)	DATA NOT AVAILABLE	.900	8.000	2.250	4.000
(IETL17)	DATA NOT AVAILABLE	.900	10.000	2.250	4.000

PRESSURE COEFFICIENT, CP

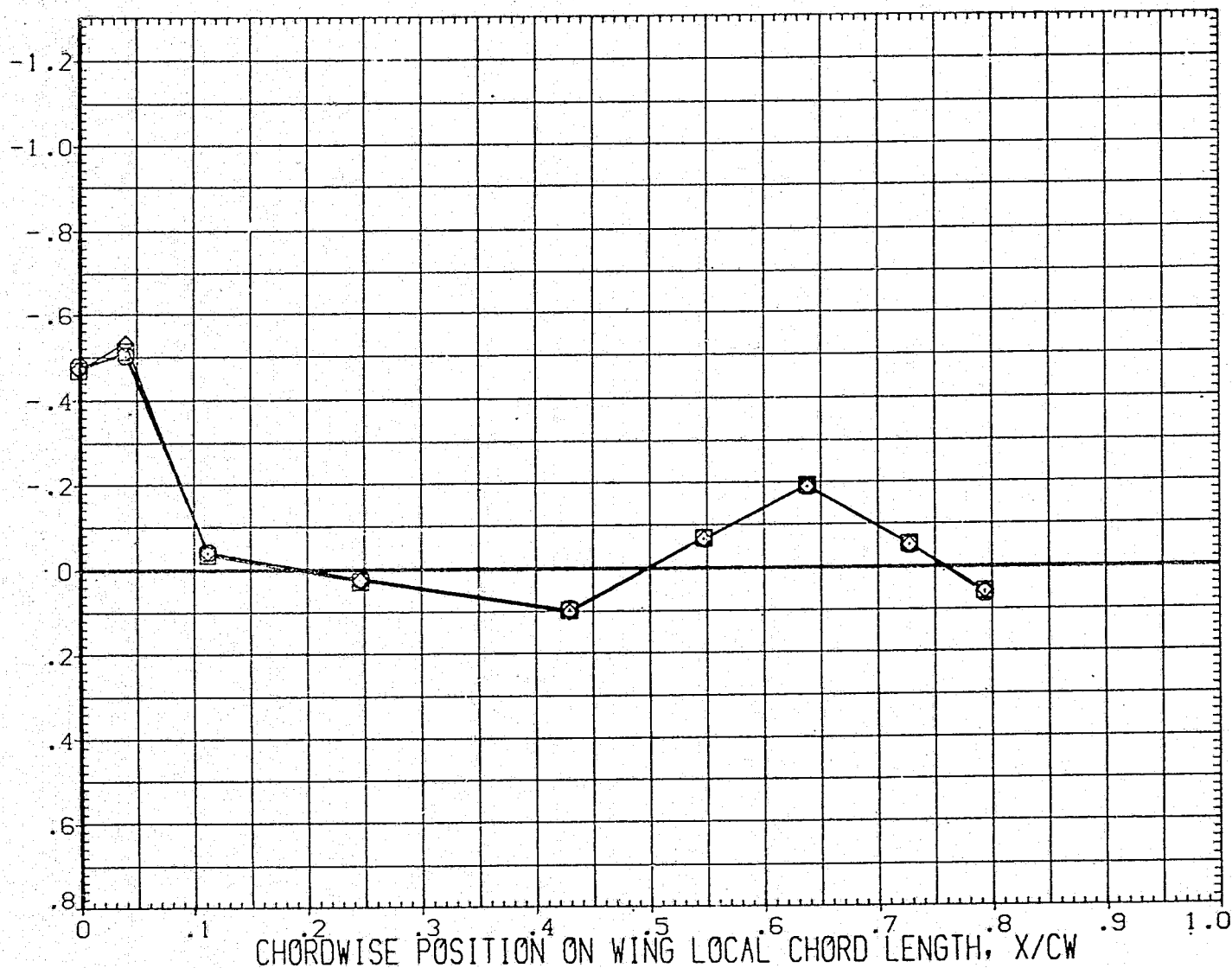


FIG. 82 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 0.9

ALPHA0= -4.000 BETA0 = .000 Y/BW = .235

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(1ETU26)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.900	.000	2.250	.000
(1ETU07)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	.900	8.000	2.250	4.000
(1ETU17)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.900	10.000	2.250	4.000
(1ETL26)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.900	.000	2.250	.000
(1ETL07)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	.900	8.000	2.250	4.000
(1ETL17)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.900	10.000	2.250	4.000

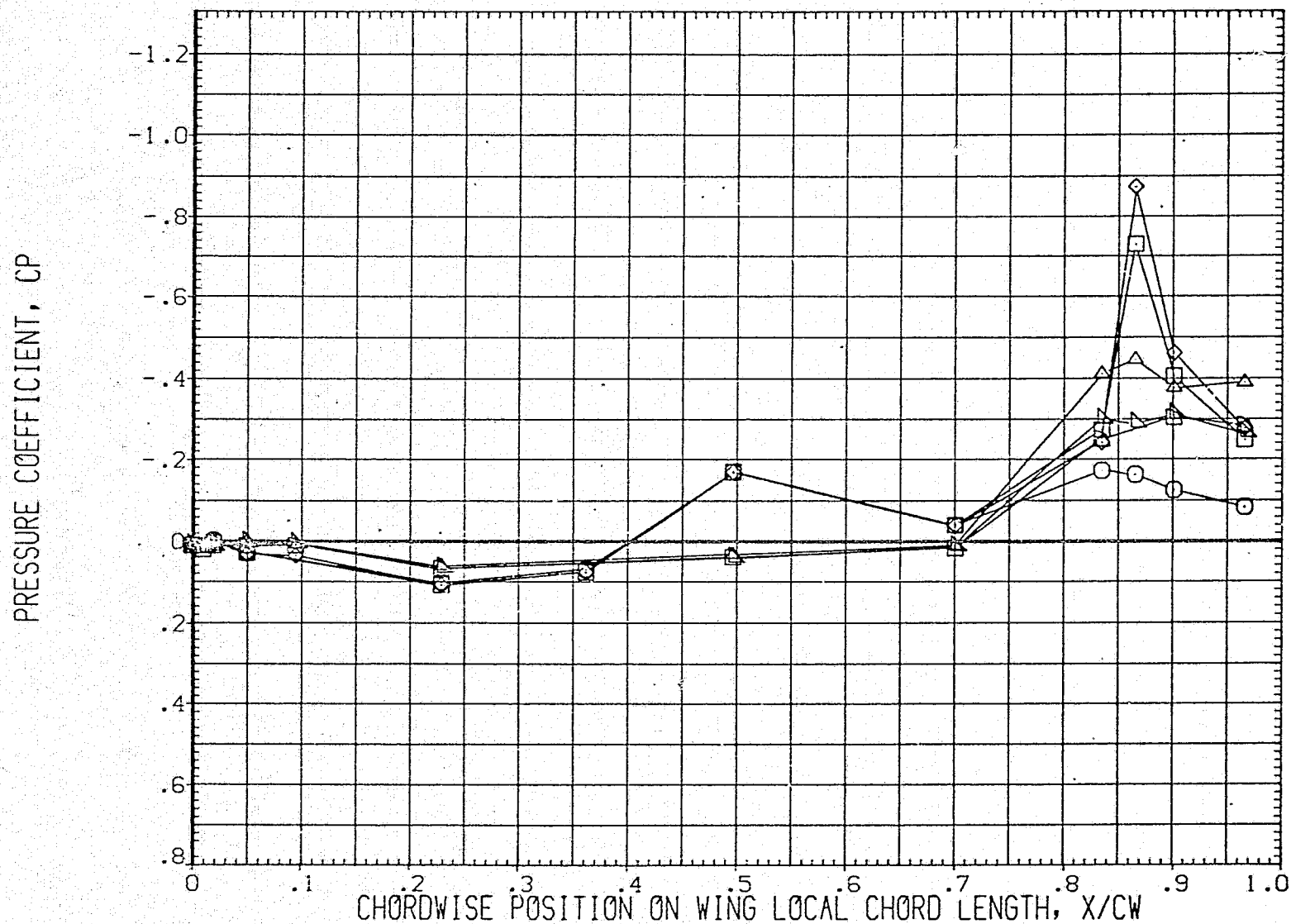


FIG. 82 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 0.9

ALPHA0= -4.000 BETA0 = .000 Y/BW = .299

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-IB	RN/FT	ELV-OB
(IETU26)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.900	.000	2.250	.000
(IETU07)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	.900	8.000	2.250	4.000
(IETU17)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.900	10.000	2.250	4.000
(IETL26)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.900	.000	2.250	.000
(IETL07)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	.900	8.000	2.250	4.000
(IETL17)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.900	10.000	2.250	4.000

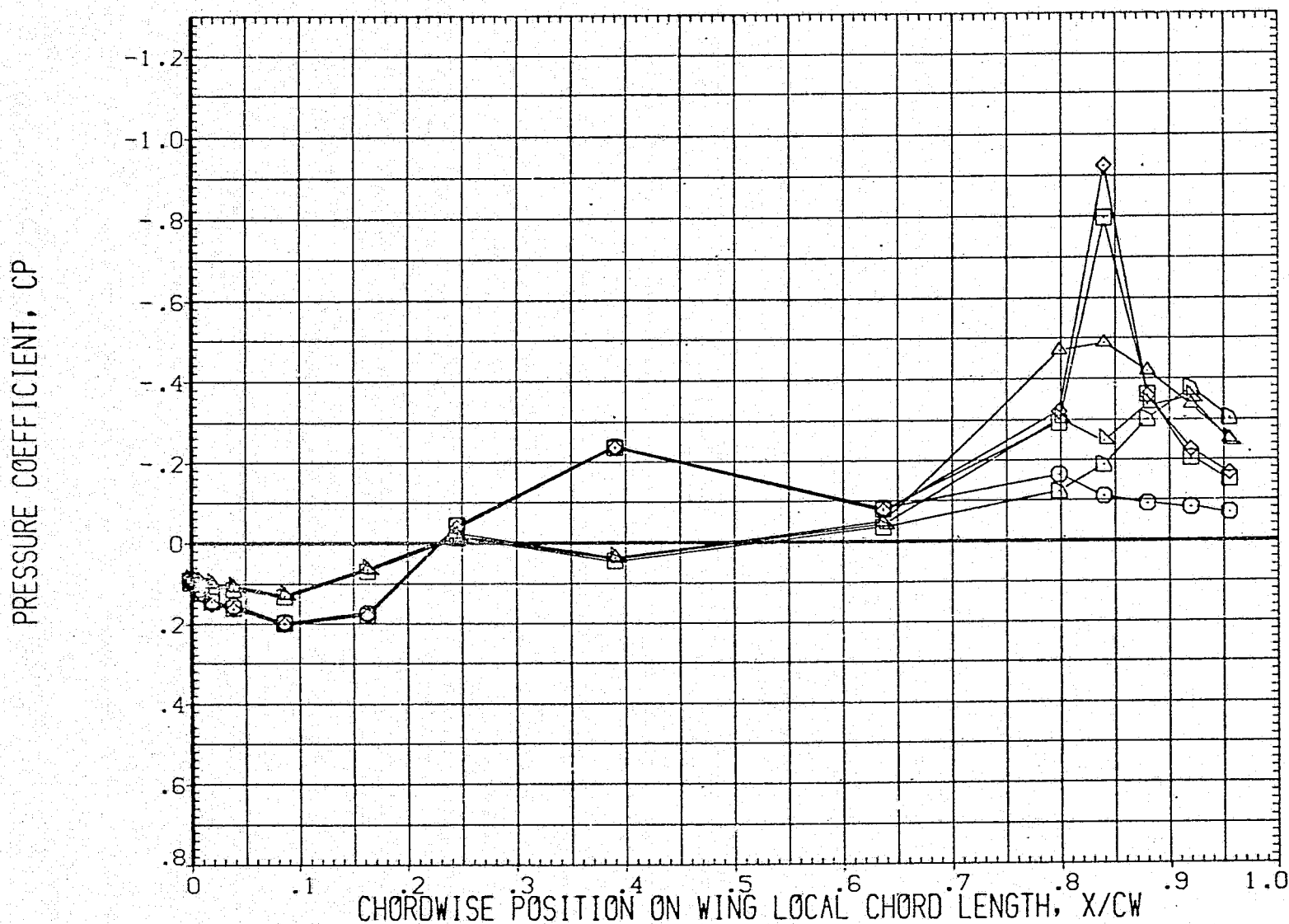


FIG. 82 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0. MACH = 0.9
 ALPHA0= -4.000 BETA0 = .000 Y/BW = .364 PAGE 1352

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(IETU26)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.900	.000	2.250	.000
(IETU07)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	.900	8.000	2.250	4.000
(IETU17)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.900	10.000	2.250	4.000
(IETL26)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.900	.000	2.250	.000
(IETL07)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	.900	8.000	2.250	4.000
(IETL17)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.900	10.000	2.250	4.000

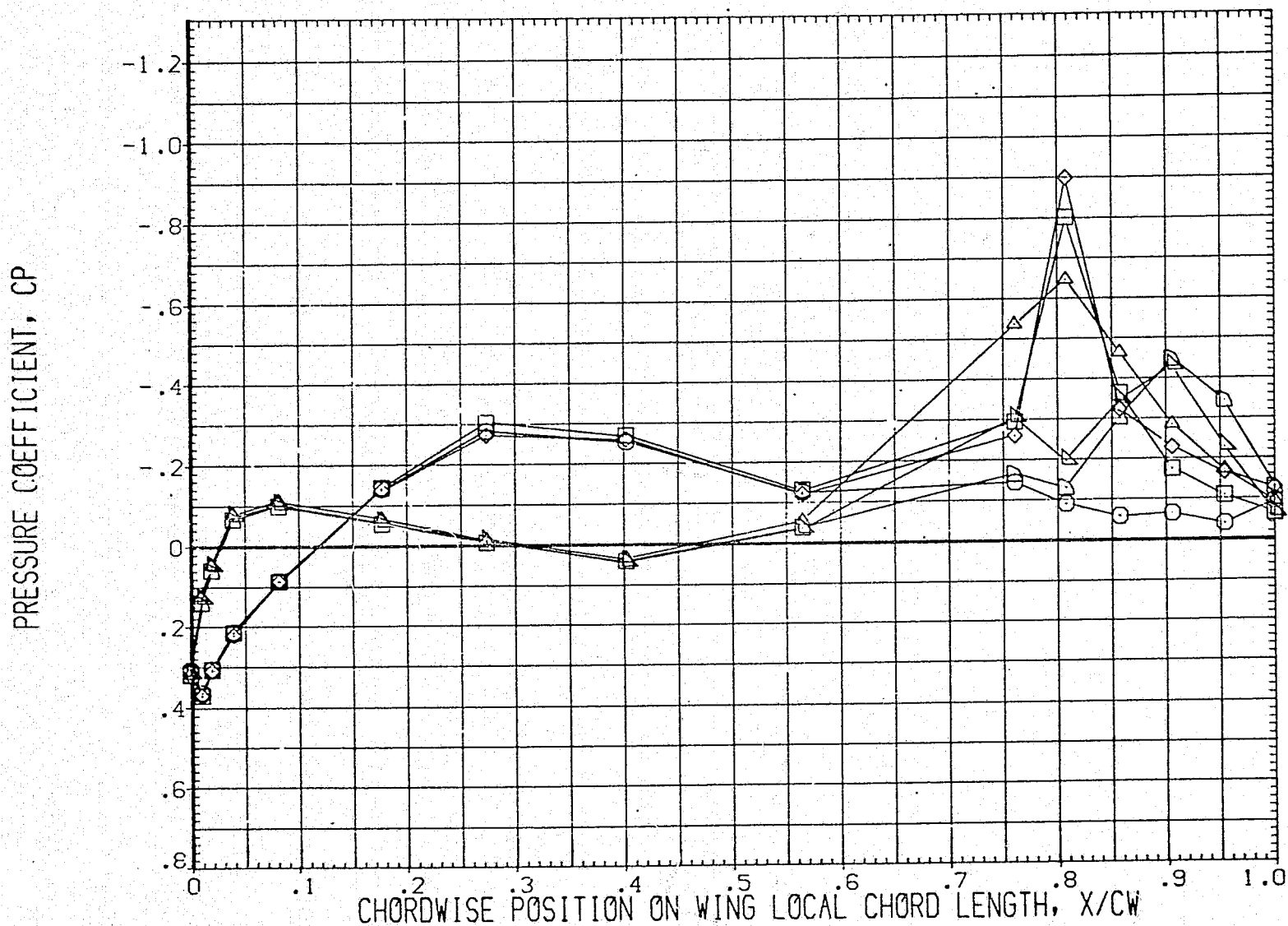


FIG. 82 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0. MACH = 0.9
 ALPHA0= -4.000 BETA0 = .000 Y/BW = .427

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-IB	RN/FT	ELV-OB
(IETU26)	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING TOP	.900	.000	2.250	.000
(IETU07)	ARC11-019 IAB1 LVAP(ELHL UNSEALED) LEFT WING TOP	.900	8.000	2.250	4.000
(IETU17)	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING TOP	.900	10.000	2.250	4.000
(IETL26)	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING BOT.	.900	.000	2.250	.000
(IETL07)	ARC11-019 IAB1 LVAP(ELHL UNSEALED) LEFT WING BOT.	.900	8.000	2.250	4.000
(IETL17)	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING BOT.	.900	10.000	2.250	4.000

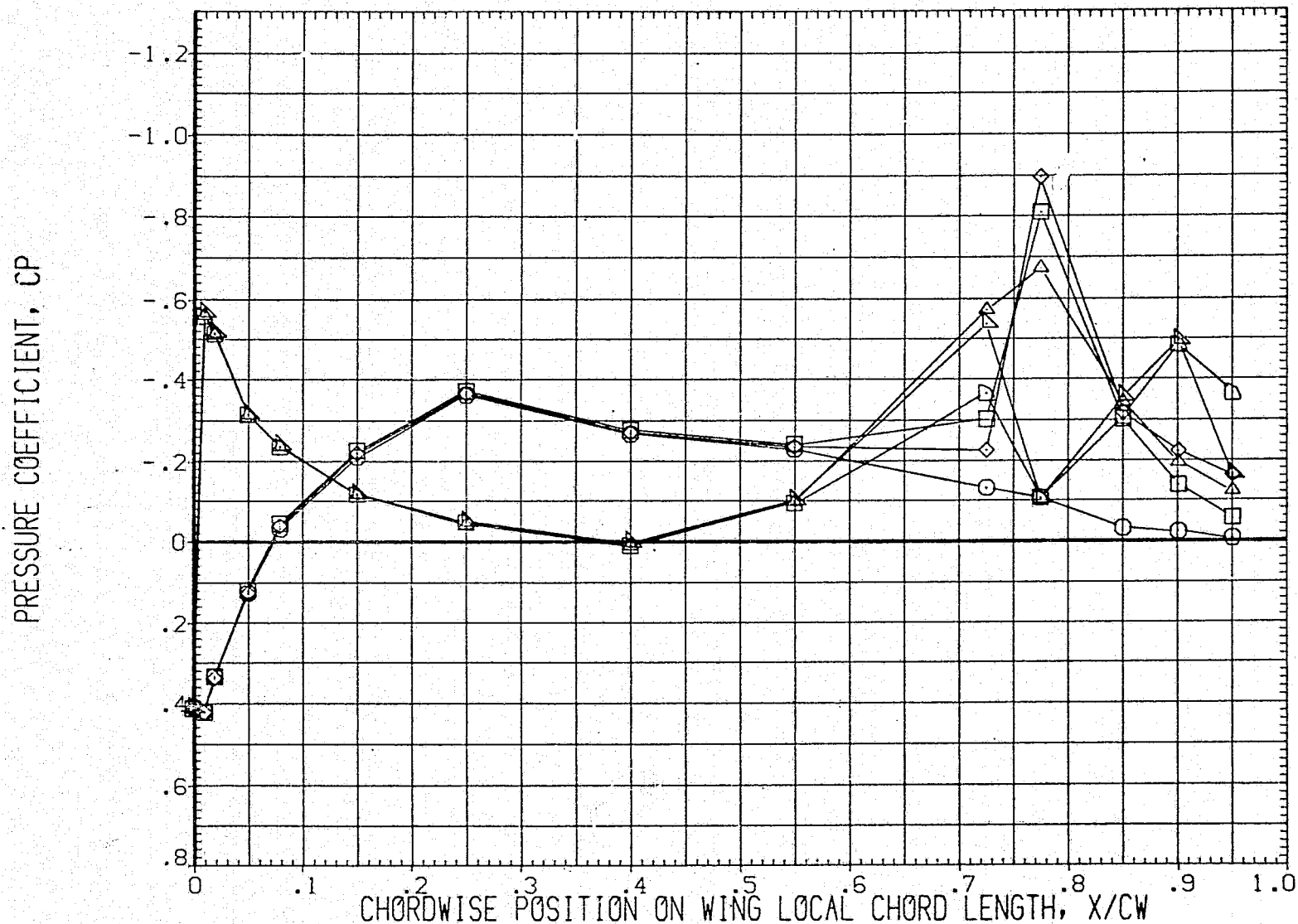


FIG. 82 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK = 0, MACH = 0.9
 $\alpha_0 = -4.000$ $\beta_0 = .000$ $Y/BW = .534$

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-IB	RN/FT	ELV-OB
(1ETU26)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.900	.000	2.250	.000
(1ETU07)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	.900	8.000	2.250	4.000
(1ETU17)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.900	10.000	2.250	4.000
(1ETL26)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.900	.000	2.250	.000
(1ETL07)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	.900	8.000	2.250	4.000
(1ETL17)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.900	10.000	2.250	4.000

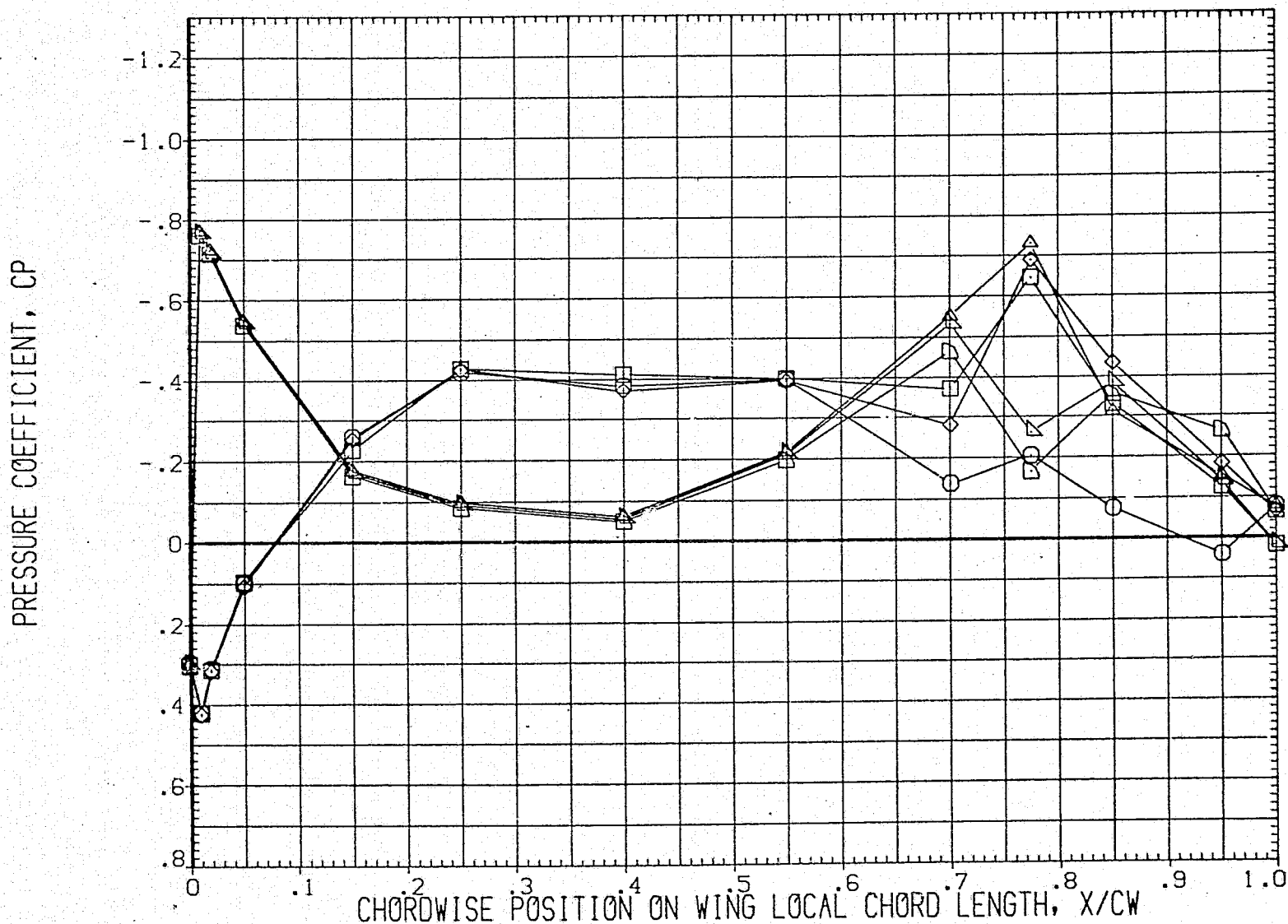


FIG. 82 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 0.9

ALPHA0= -4.000 BETA0 = .000 Y/BW = .673

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-IB	RN/FT	ELV-OB
(IETU26)	ARC11-019 IA81 LVAP(ELHL SEALED) LEFT WING TOP	.900	.000	2.250	.000
(IETU07)	ARC11-019 IA81 LVAP(ELHL UNSEALED) LEFT WING TOP	.900	8.000	2.250	4.000
(IETU17)	ARC11-019 IA81 LVAP(ELHL SEALED) LEFT WING TOP	.900	10.000	2.250	4.000
(IETL26)	ARC11-019 IA81 LVAP(ELHL SEALED) LEFT WING BOT.	.900	.000	2.250	.000
(IETL07)	ARC11-019 IA81 LVAP(ELHL UNSEALED) LEFT WING BOT.	.900	8.000	2.250	4.000
(IETL17)	ARC11-019 IA81 LVAP(ELHL SEALED) LEFT WING BOT.	.900	10.000	2.250	4.000

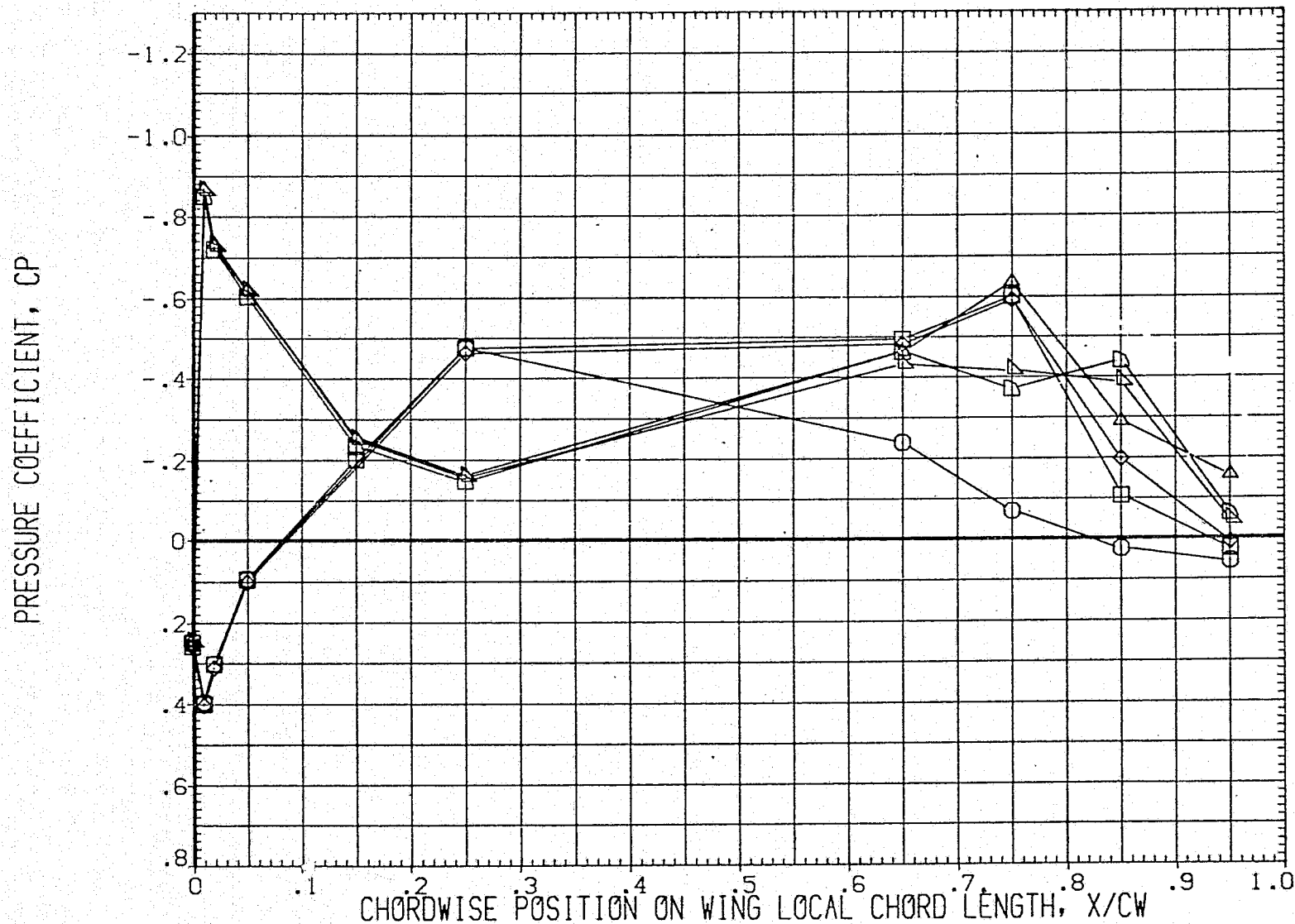


FIG. 82 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 0.9
 $\alpha_0 = -4.000$ $\beta_0 = .000$ $Y/BW = .780$

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(IETU26)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.900	.000	2.250	.000
(IETU07)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	.900	8.000	2.250	4.000
(IETU17)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.900	10.000	2.250	4.000
(IETL26)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.900	.000	2.250	.000
(IETL07)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	.900	8.000	2.250	4.000
(IETL17)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.900	10.000	2.250	4.000

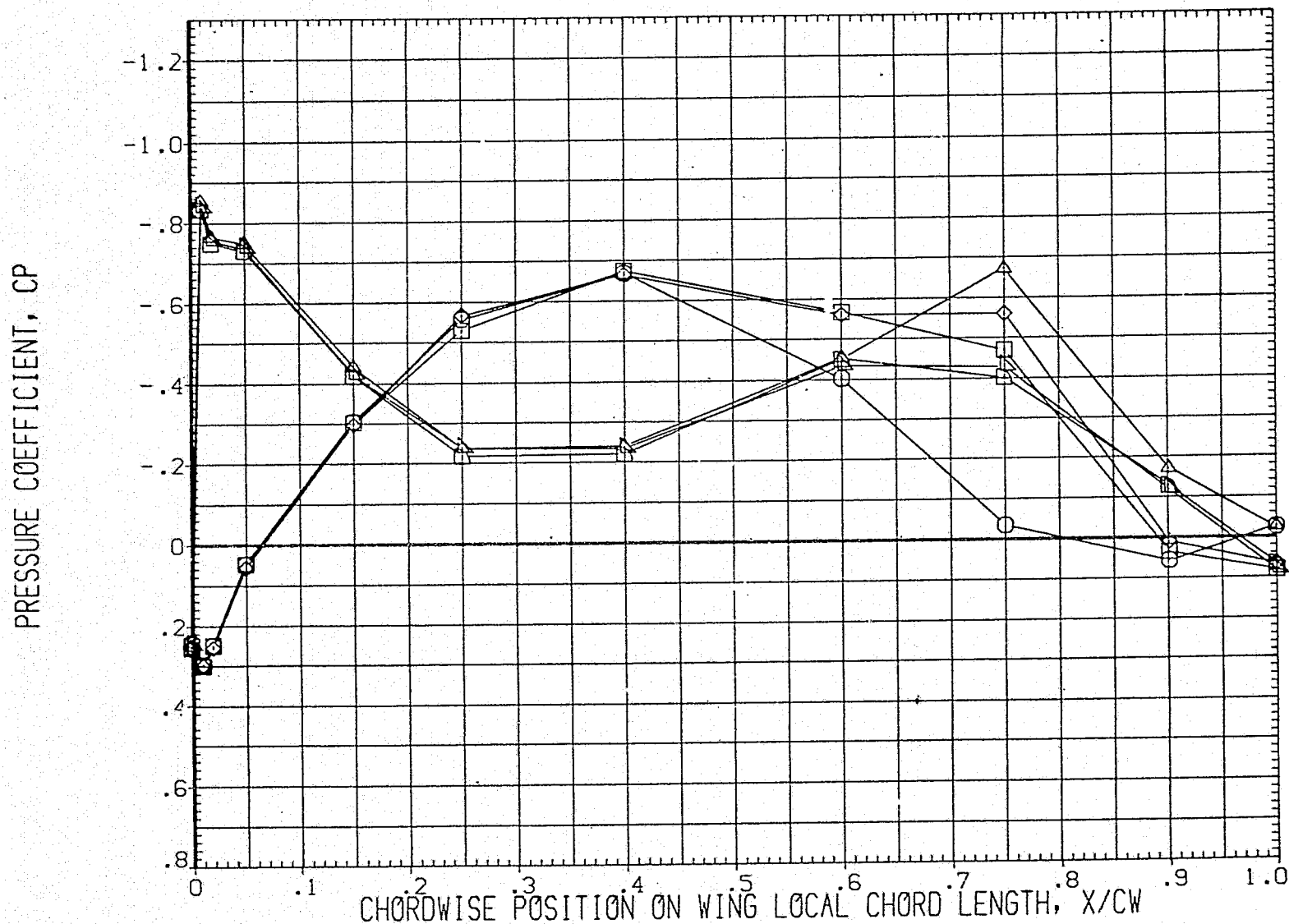


FIG. 82 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 0.9
 ALPHA0= -4.000 BETA0 = .000 Y/BW = .887

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-IB	RN/FT	ELV-OB
(IETU26)	ARC11-019 IA81 LVAP(ELHL SEALED) LEFT WING TOP	.900	.000	2.250	.000
(IETU07)	ARC11-019 IA81 LVAP(ELHL UNSEALED) LEFT WING TOP	.900	8.000	2.250	4.000
(IETU17)	ARC11-019 IA81 LVAP(ELHL SEALED) LEFT WING TOP	.900	10.000	2.250	4.000
(IETL26)	ARC11-019 IA81 LVAP(ELHL SEALED) LEFT WING BOT.	.900	.000	2.250	.000
(IETL07)	ARC11-019 IA81 LVAP(ELHL UNSEALED) LEFT WING BOT.	.900	8.000	2.250	4.000
(IETL17)	ARC11-019 IA81 LVAP(ELHL SEALED) LEFT WING BOT.	.900	10.000	2.250	4.000

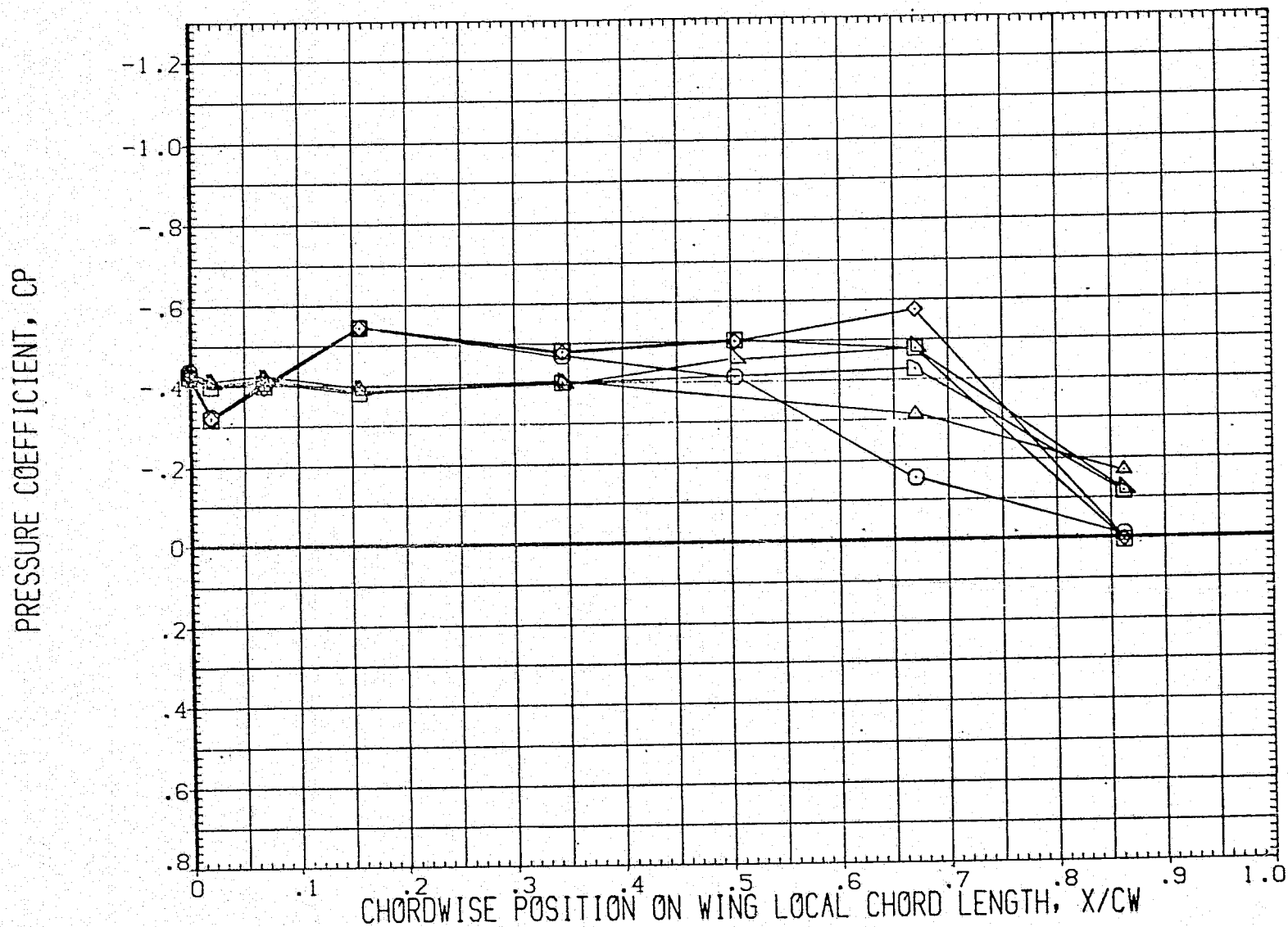


FIG. 82 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0. MACH = 0.9
 ALPHA0= -4.000 BETA0 = .000 Y/BW = .972

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-IB	RN/FT	ELV-OB
(IETU26)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.900	.000	2.250	.000
(IETU07)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	.900	8.000	2.250	4.000
(IETU17)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.900	10.000	2.250	4.000
(IETL26)	DATA NOT AVAILABLE	.900	.000	2.250	.000
(IETL07)	DATA NOT AVAILABLE	.900	8.000	2.250	4.000
(IETL17)	DATA NOT AVAILABLE	.900	10.000	2.250	4.000

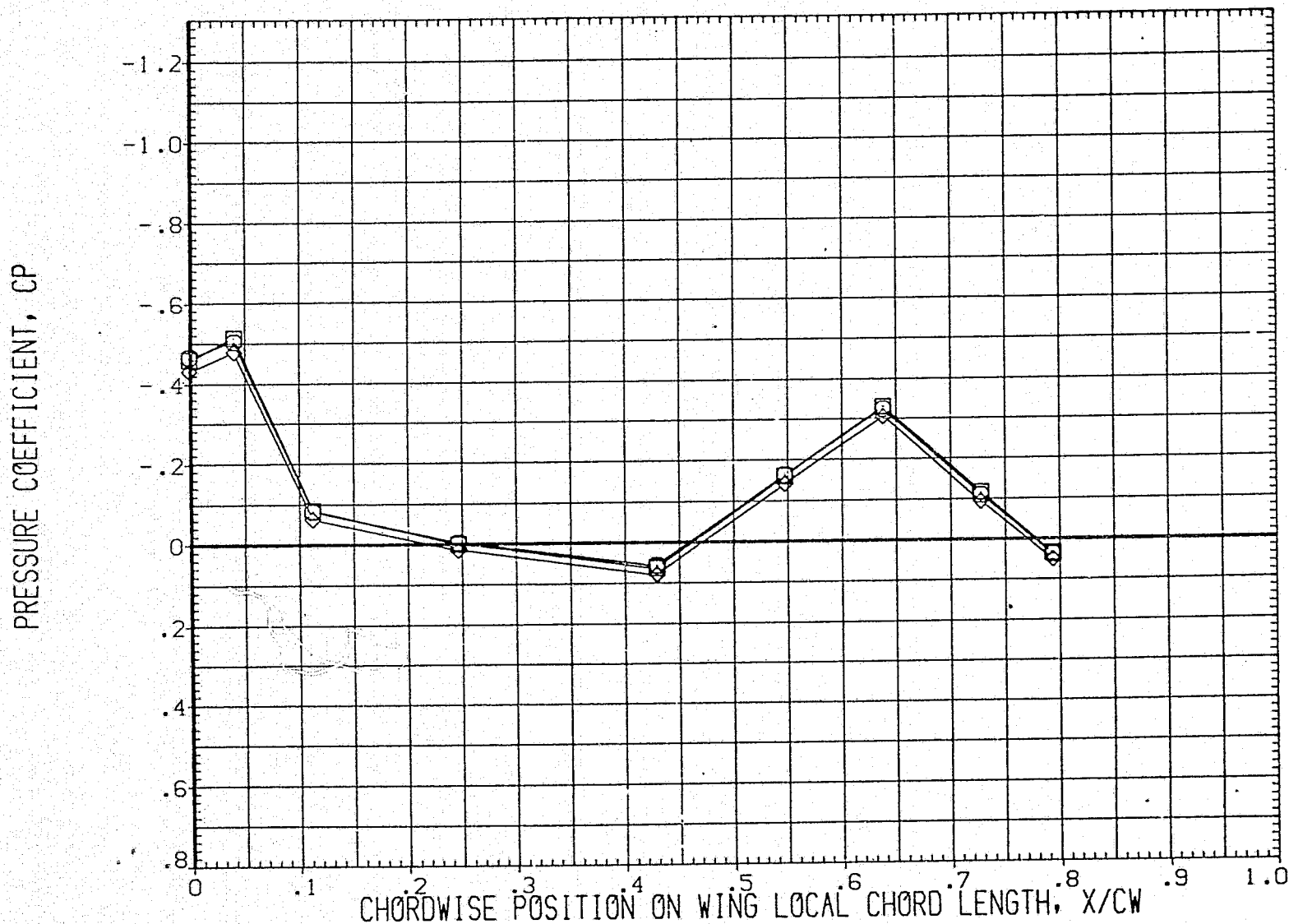


FIG. 82 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 0.9

ALPHA0= .000 BETA0 = .000 Y/BW = .235

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-18	RN/FT	ELV-08
(IETU26)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.900	.000	2.250	.000
(IETU07)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	.900	8.000	2.250	4.000
(IETU17)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.900	10.000	2.250	4.000
(IETL26)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.900	.000	2.250	.000
(IETL07)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	.900	8.000	2.250	4.000
(IETL17)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.900	10.000	2.250	4.000

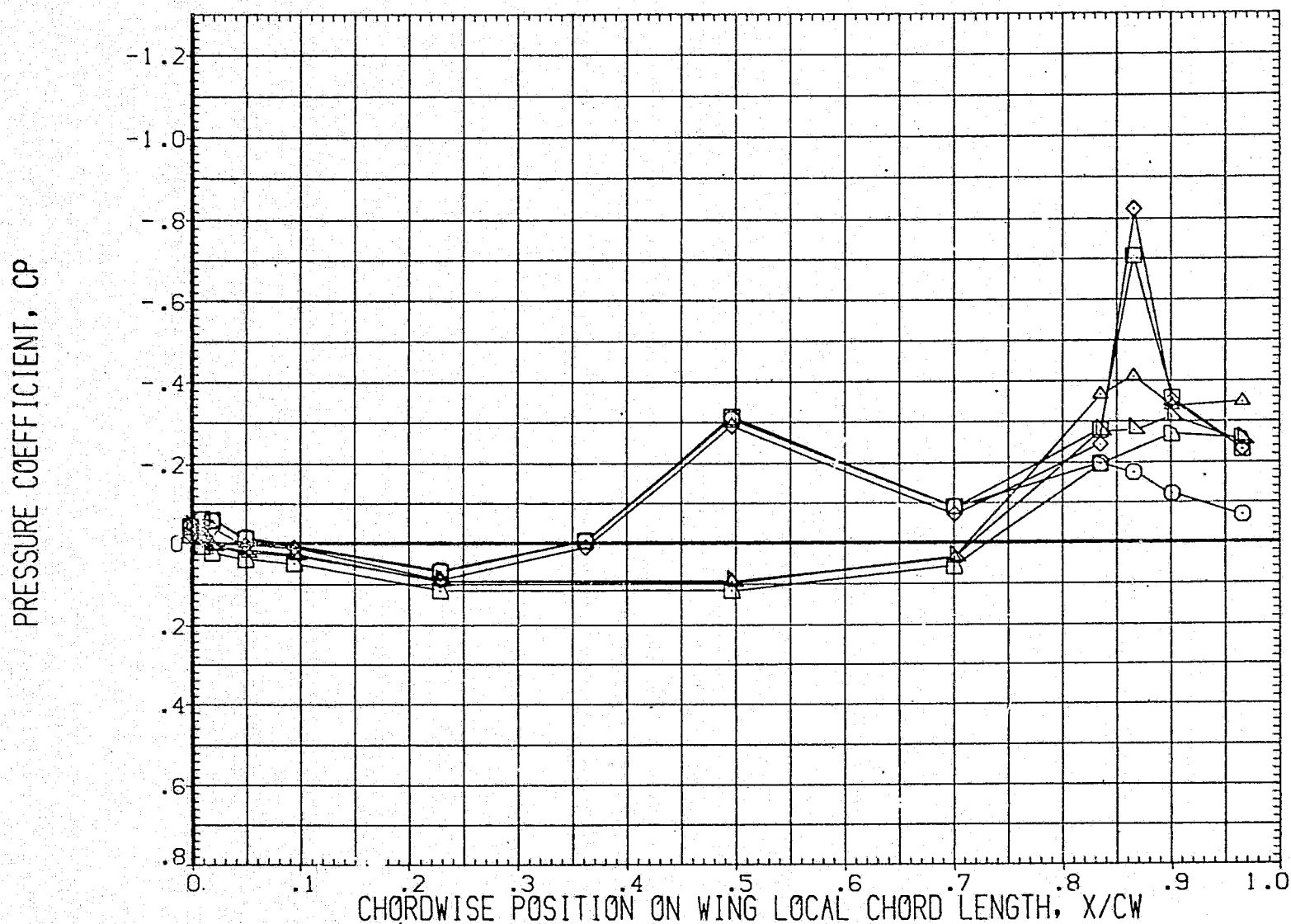


FIG. 82 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0. MACH = 0.9

ALPHA0= .000 BETA0 = .000 Y/BW = .299

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(IETU26)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.900	.000	2.250	.000
(IETU07)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	.900	8.000	2.250	4.000
(IETU17)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.900	10.000	2.250	4.000
(IETL26)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.900	.000	2.250	.000
(IETL07)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	.900	8.000	2.250	4.000
(IETL17)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.900	10.000	2.250	4.000

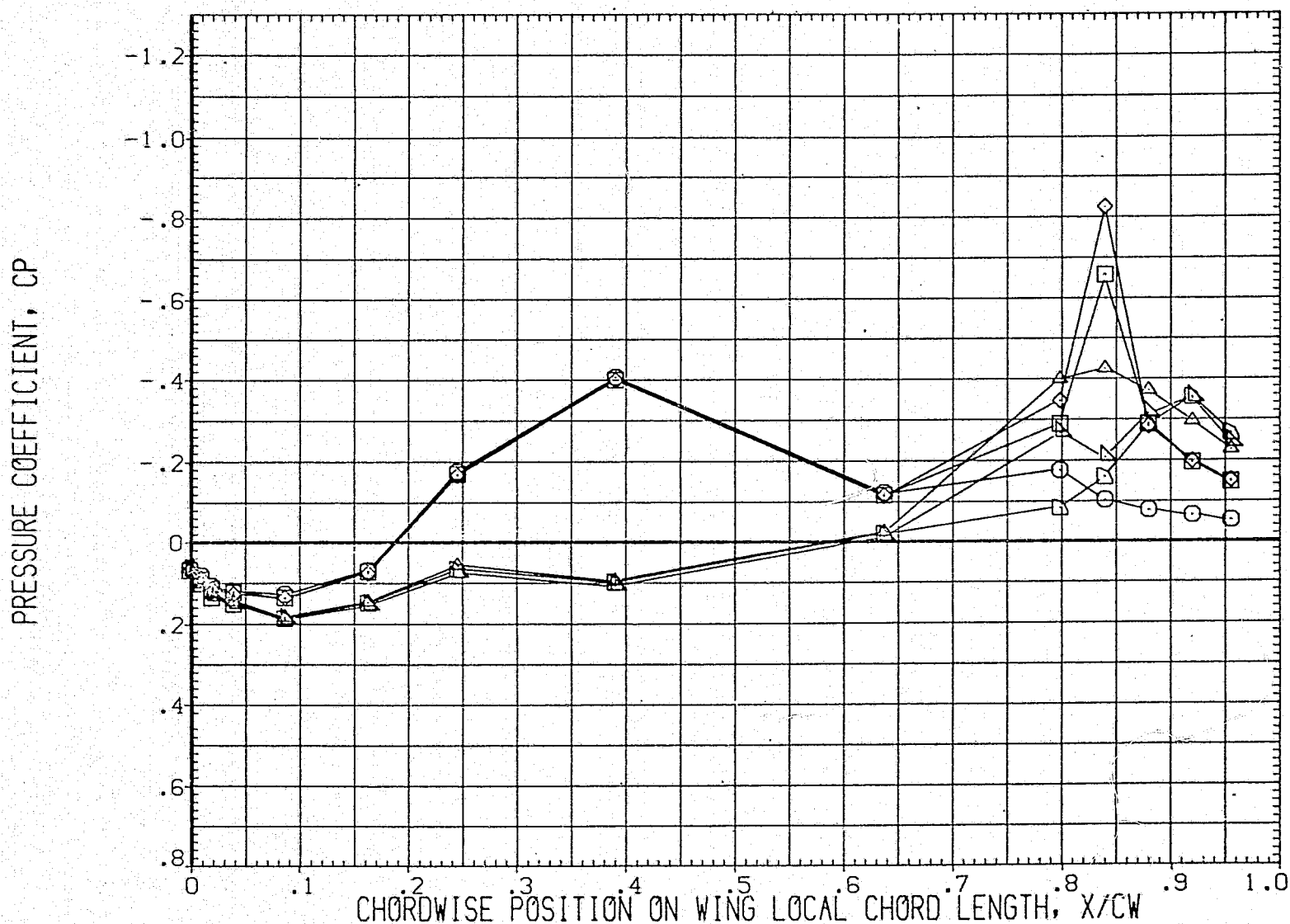


FIG. 82 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 0.9

ALPHA0= .000 BETA0 = .000 Y/BW = .364

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-18	RN/FT	ELV-08
(IETU26)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.900	.000	2.250	.000
(IETU07)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	.900	8.000	2.250	4.000
(IETU17)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.900	10.000	2.250	4.000
(IETL26)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.900	.000	2.250	.000
(IETL07)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	.900	8.000	2.250	4.000
(IETL17)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.900	10.000	2.250	4.000

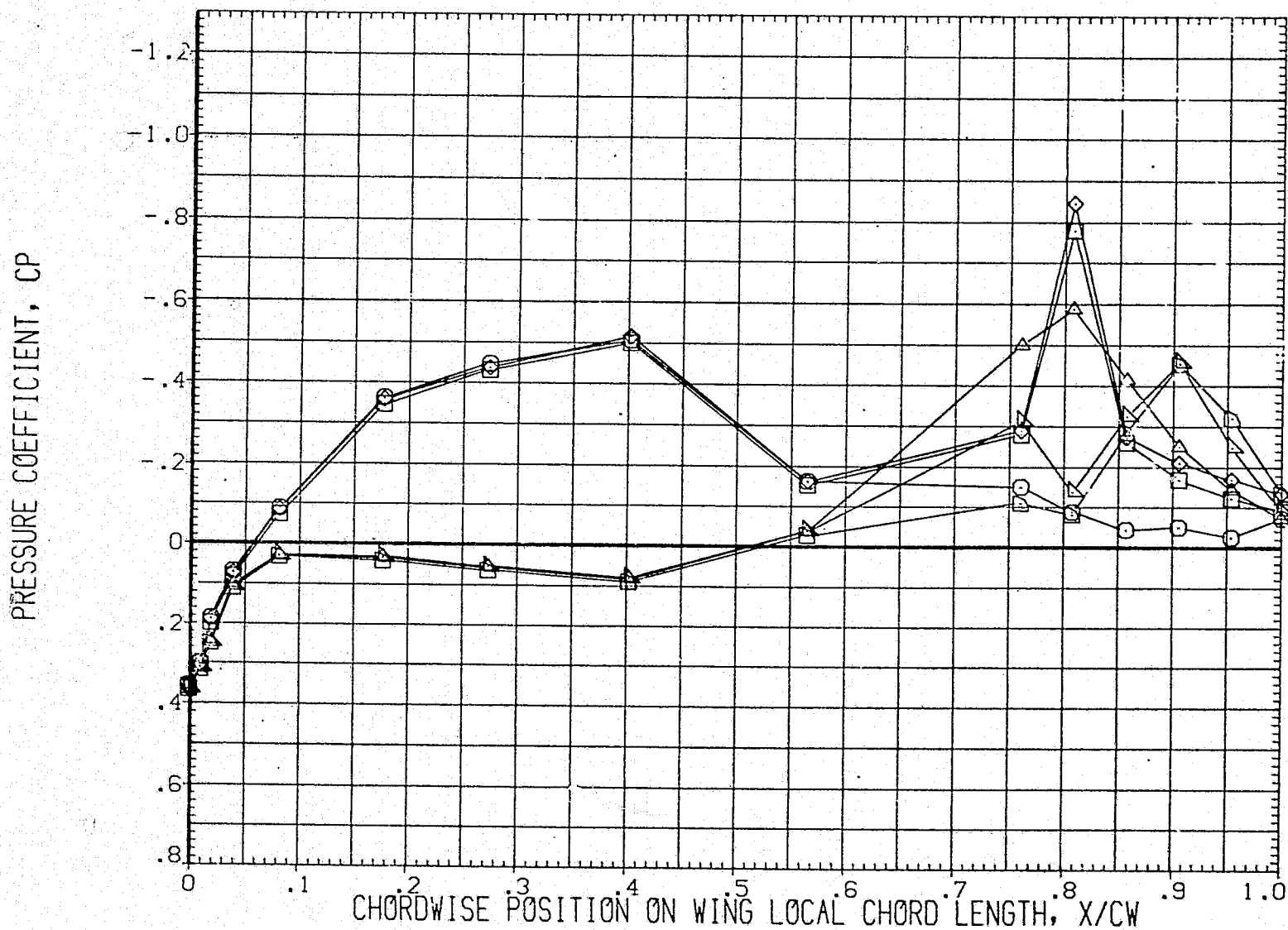


FIG. 82 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 0.9

ALPHA0= .000 BETA0 = .000 Y/BW = .427

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-IB	RN/FT	ELV-OB
(1ETU26)	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING TOP	.900	.000	2.250	.000
(1ETU07)	ARC11-019 IAB1 LVAP(ELHL UNSEALED) LEFT WING TOP	.900	8.000	2.250	4.000
(1ETU17)	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING TOP	.900	10.000	2.250	4.000
(1ETL26)	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING BOT.	.900	.000	2.250	.000
(1ETL07)	ARC11-019 IAB1 LVAP(ELHL UNSEALED) LEFT WING BOT.	.900	8.000	2.250	4.000
(1ETL17)	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING BOT.	.900	10.000	2.250	4.000

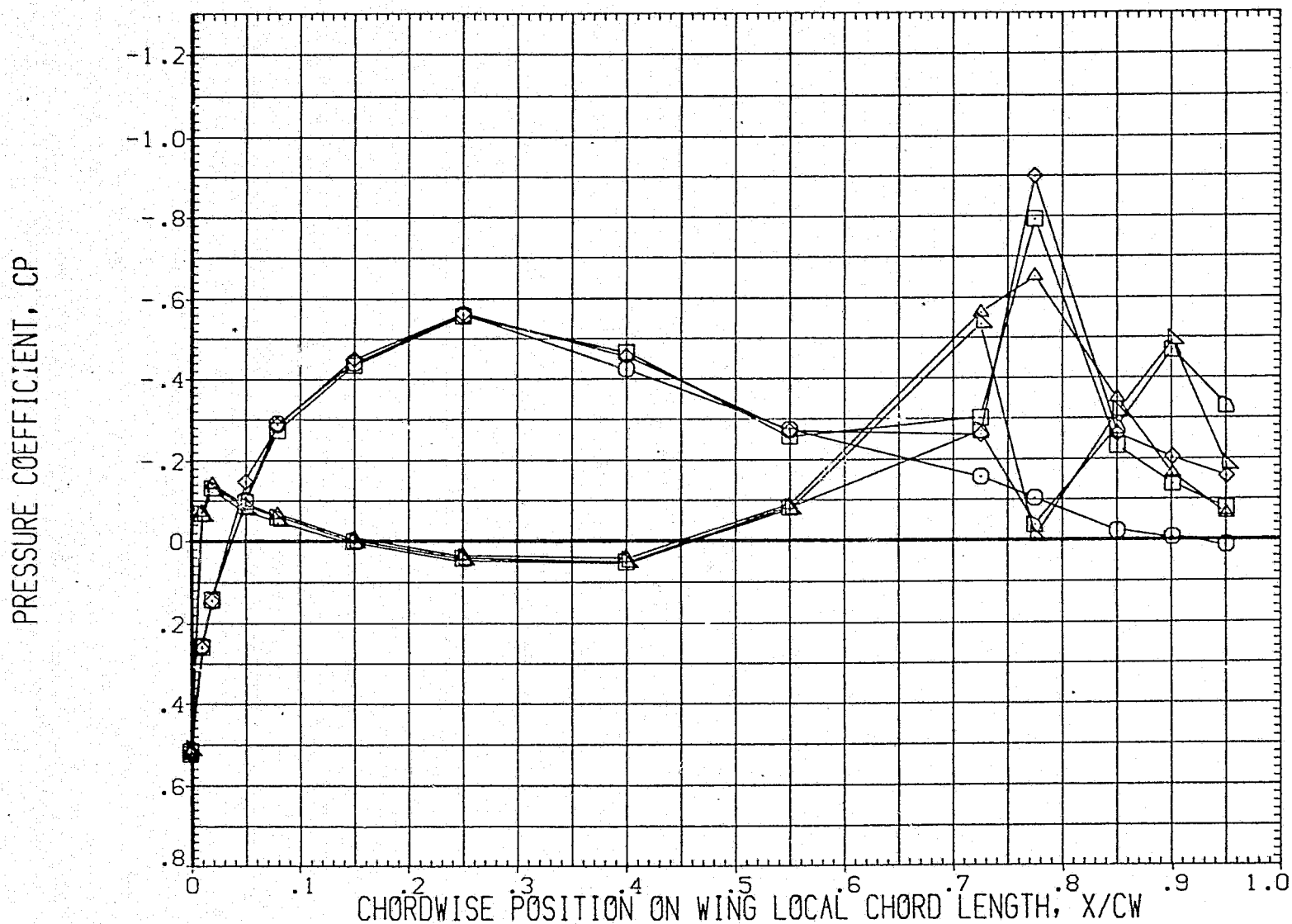


FIG. 82 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 0.9

ALPHA0= .000 BETA0= .000 Y/BW = .534

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(IETU26)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.900	.000	2.250	.000
(IETU07)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	.900	8.000	2.250	4.000
(IETU17)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.900	10.000	2.250	4.000
(IETL26)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.900	.000	2.250	.000
(IETL07)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	.900	8.000	2.250	4.000
(IETL17)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.900	10.000	2.250	4.000

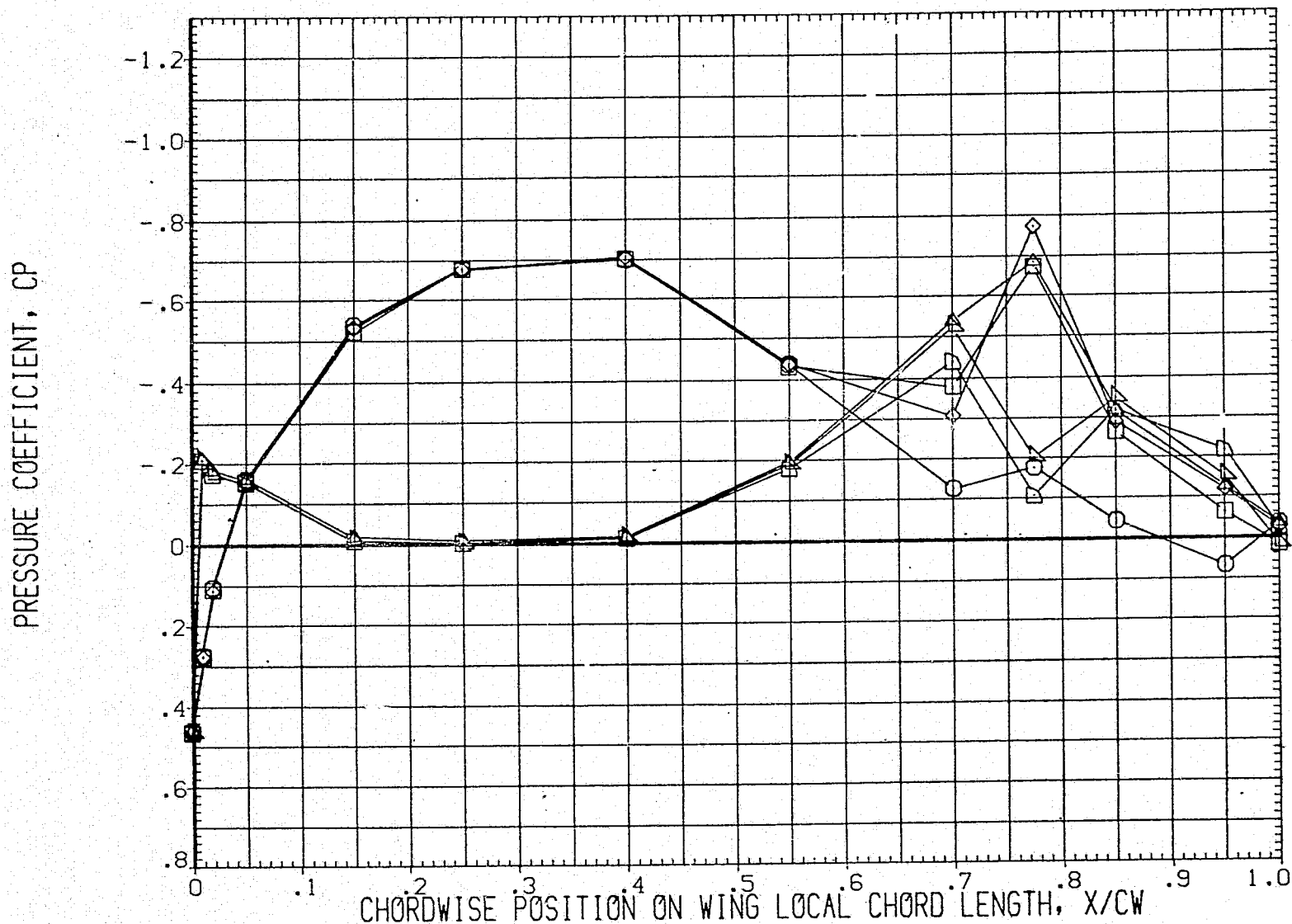


FIG. 82 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 0.9

ALPHA0= .000 BETA0 = .000 Y/BW = .673

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-IB	RN/FT	ELV-OB
(IETU26)	ARC11-019 IAS1 LVAP(ELHL SEALED) LEFT WING TOP	.900	.000	2.250	.000
(IETU07)	ARC11-019 IAS1 LVAP(ELHL UNSEALED) LEFT WING TOP	.900	8.000	2.250	4.000
(IETU17)	ARC11-019 IAS1 LVAP(ELHL SEALED) LEFT WING TOP	.900	10.000	2.250	4.000
(IETL26)	ARC11-019 IAS1 LVAP(ELHL SEALED) LEFT WING BOT.	.900	.000	2.250	.000
(IETL07)	ARC11-019 IAS1 LVAP(ELHL UNSEALED) LEFT WING BOT.	.900	8.000	2.250	4.000
(IETL17)	ARC11-019 IAS1 LVAP(ELHL SEALED) LEFT WING BOT.	.900	10.000	2.250	4.000

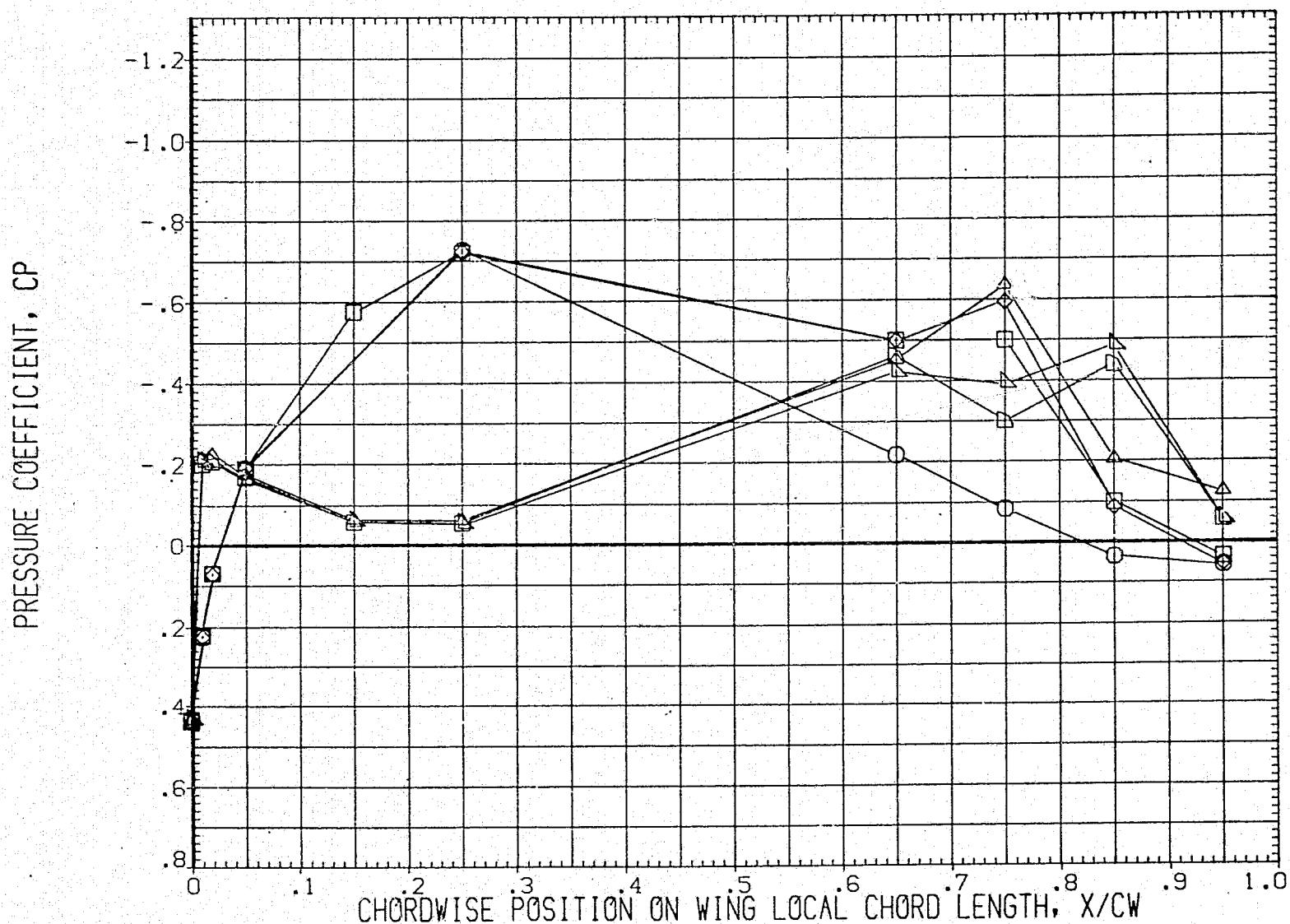


FIG. 82 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 0.9

ALPHA0= .000 BETA0 = .000 Y/BW = .780

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(1ETU26)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.900	.000	2.250	.000
(1ETU07)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	.900	8.000	2.250	4.000
(1ETU17)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.900	10.000	2.250	4.000
(1ETL26)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.900	.000	2.250	.000
(1ETL07)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	.900	8.000	2.250	4.000
(1ETL17)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.900	10.000	2.250	4.000

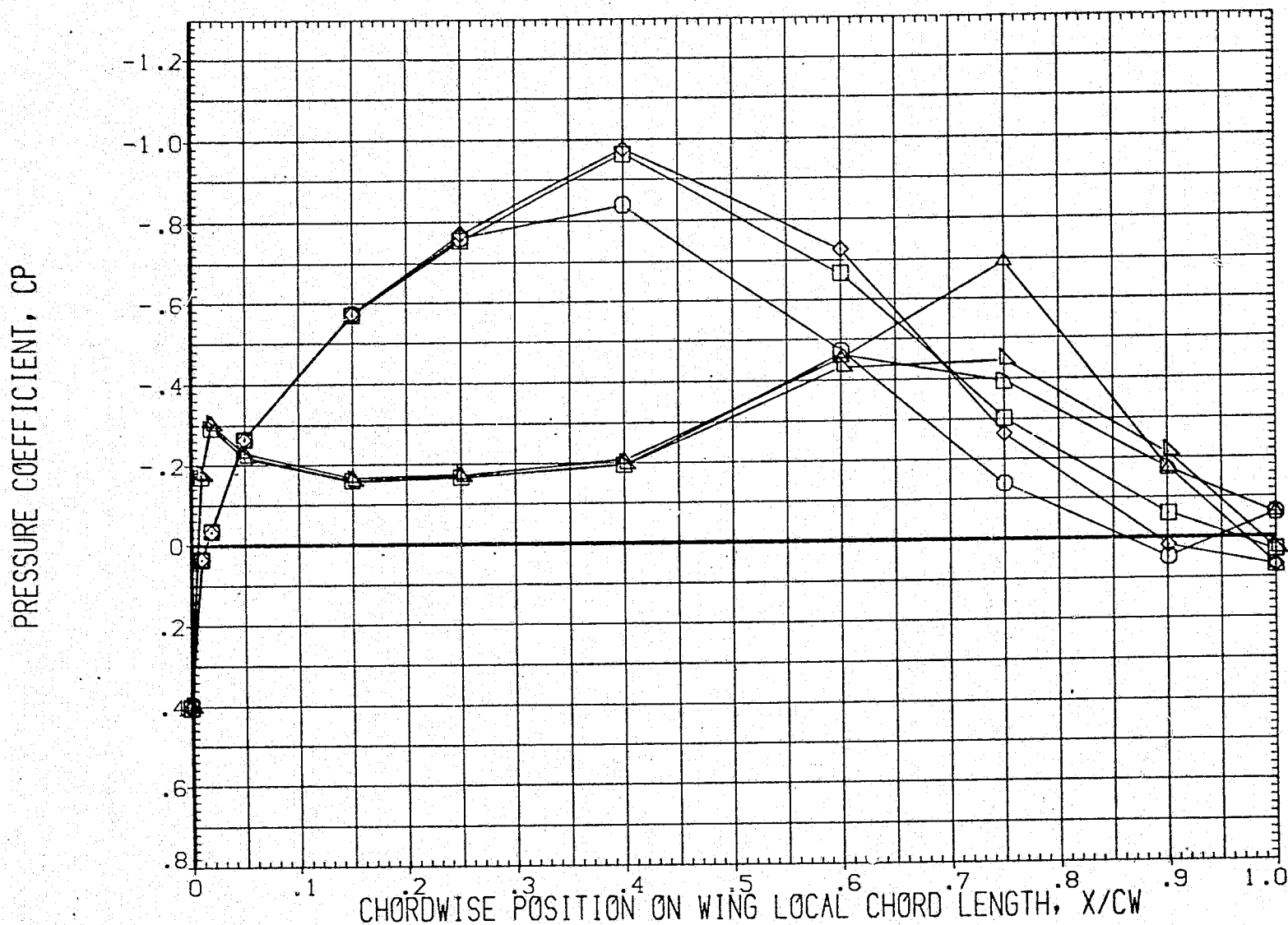


FIG. 82 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 0.9

ALPHA0= .000 BETA0 = .000 Y/BW = .887

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(1ETU26)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.900	.000	2.250	.000
(1ETU07)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	.900	8.000	2.250	4.000
(1ETU17)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.900	10.000	2.250	4.000
(1ETL26)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.900	.000	2.250	.000
(1ETL07)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	.900	8.000	2.250	4.000
(1ETL17)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.900	10.000	2.250	4.000

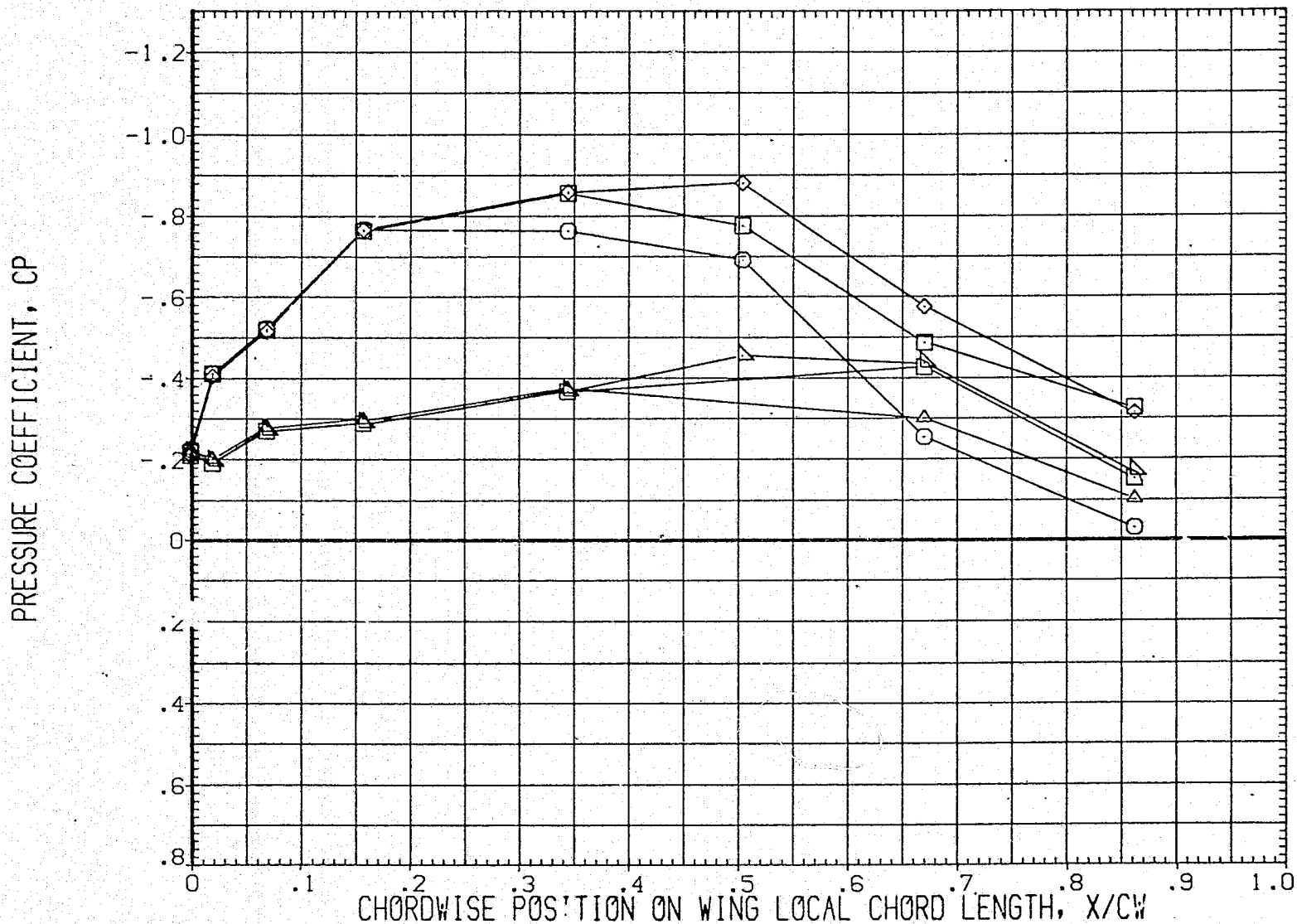


FIG. 82 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0. MACH = 0.9

ALPHA0= .000 BETA0 = .000 Y/BW = .972

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(IETU26)	□	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP
(IETU07)	□	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP
(IETU17)	□	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP
(IETL26)	□	DATA NOT AVAILABLE
(IETL07)	□	DATA NOT AVAILABLE
(IETL17)	□	DATA NOT AVAILABLE

MACH	ELV-1B	RN/FT	ELV-0B
.900	.000	2.250	.000
.900	8.000	2.250	4.000
.900	10.000	2.250	4.000
.900	.000	2.250	.000
.900	8.000	2.250	4.000
.900	10.000	2.250	4.000

PRESSURE COEFFICIENT, CP

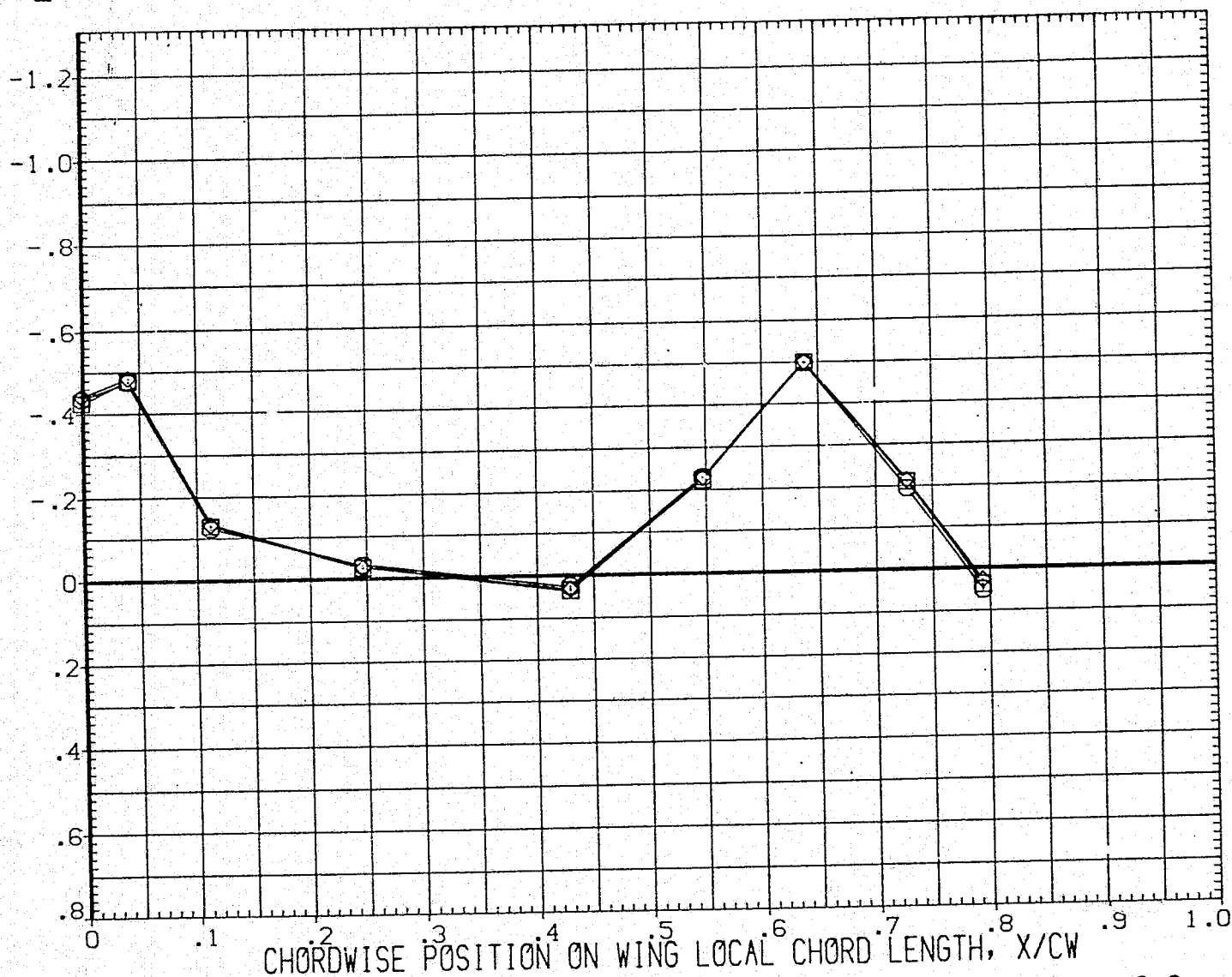


FIG. 82 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 0.9
 ALPHA0= 4.000 BETA0 = .000 Y/BW = .235

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-18	RN/FT	ELV-08
(IETU26)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.900	.000	2.250	.000
(IETU07)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	.900	8.000	2.250	4.000
(IETU17)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.900	10.000	2.250	4.000
(IETL26)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.900	.000	2.250	.000
(IETL07)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	.900	8.000	2.250	4.000
(IETL17)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.900	10.000	2.250	4.000

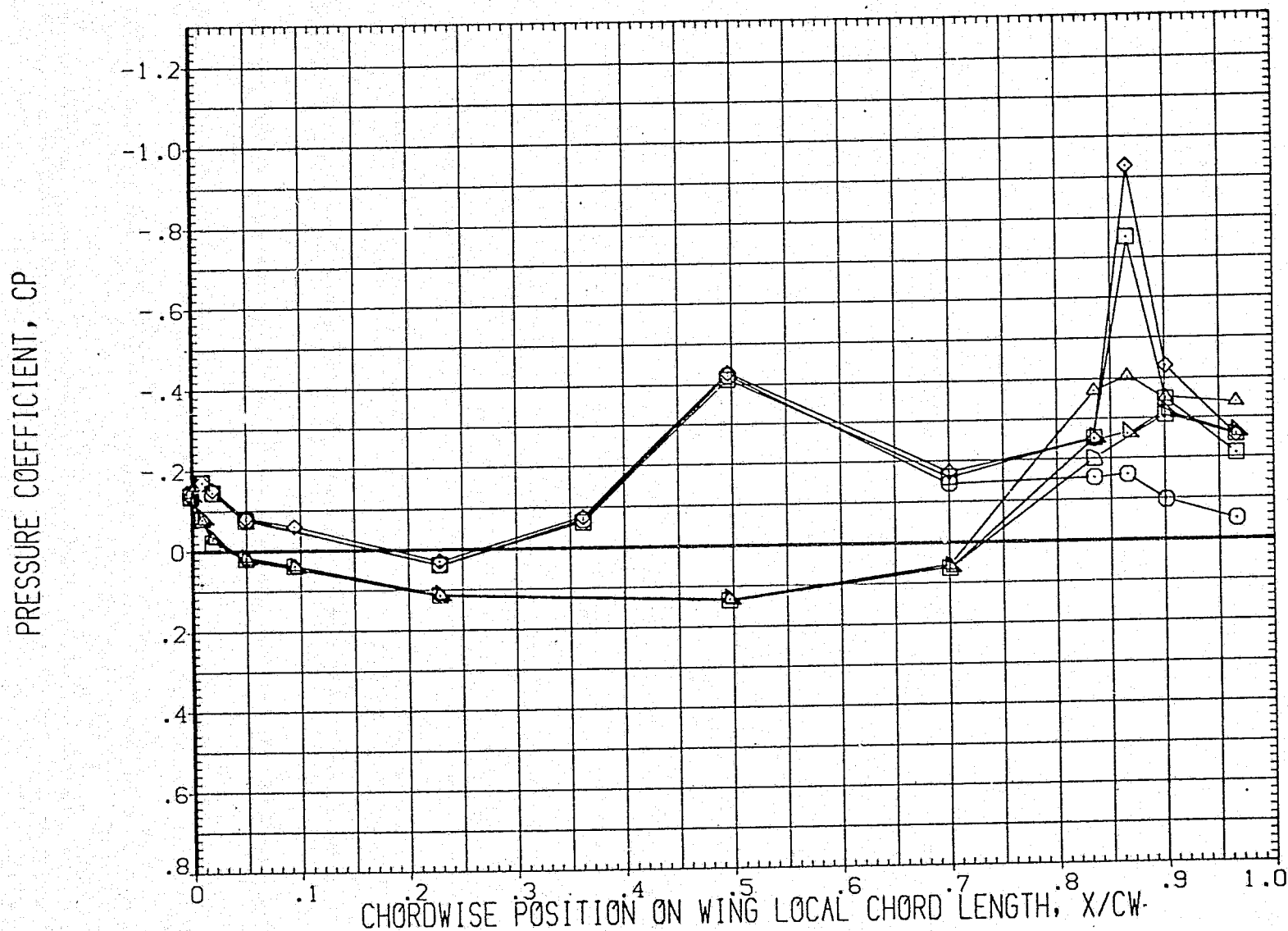


FIG. 82 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 0.9

ALPHA0= 4.000 BETA0 = .000 Y/BW = .299

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-IB	RN/FT	ELV-OB
(IETU26)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.900	.000	2.250	.000
(IETU07)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	.900	8.000	2.250	4.000
(IETU17)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.900	10.000	2.250	4.000
(IETL26)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.900	.000	2.250	.000
(IETL07)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	.900	8.000	2.250	4.000
(IETL17)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.900	10.000	2.250	4.000

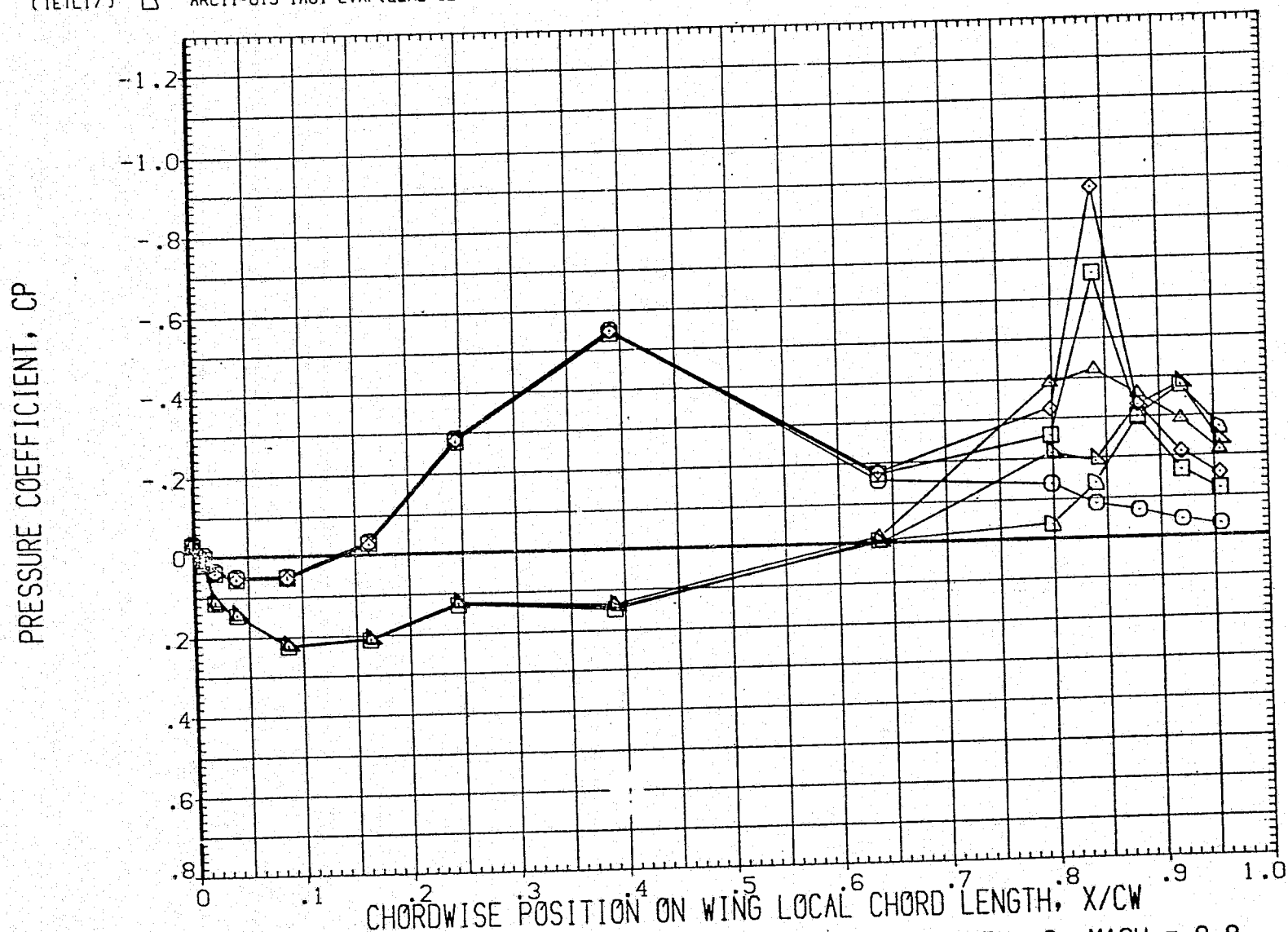


FIG. 82 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 0.9
 ALPHA0= 4.000 BETA0 = .000 Y/BW = .364

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(1ETU26)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.900	.000	2.250	.000
(1ETU07)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	.900	8.000	2.250	4.000
(1ETU17)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.900	10.000	2.250	4.000
(1ETL26)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.900	.000	2.250	.000
(1ETL07)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	.900	8.000	2.250	4.000
(1ETL17)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.900	10.000	2.250	4.000

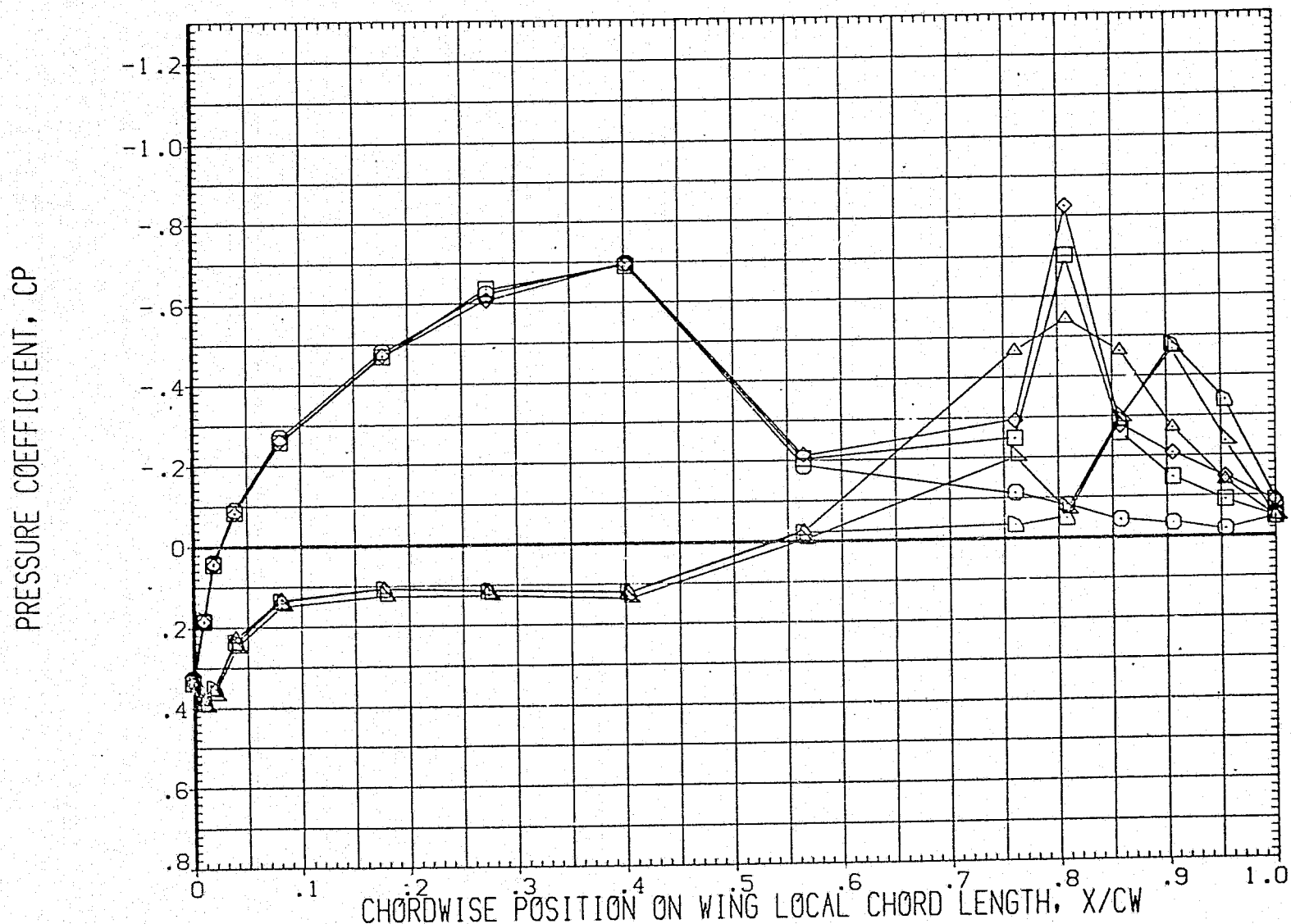


FIG. 82 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 0.9
 $\alpha_0 = 4.000$ $\beta_0 = .000$ $Y/BW = .427$

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(1ETU26)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.900	.000	2.250	.000
(1ETU07)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	.900	8.000	2.250	4.000
(1ETU17)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.900	10.000	2.250	4.000
(1ETL26)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.900	.000	2.250	.000
(1ETL07)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	.900	8.000	2.250	4.000
(1ETL17)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.900	10.000	2.250	4.000

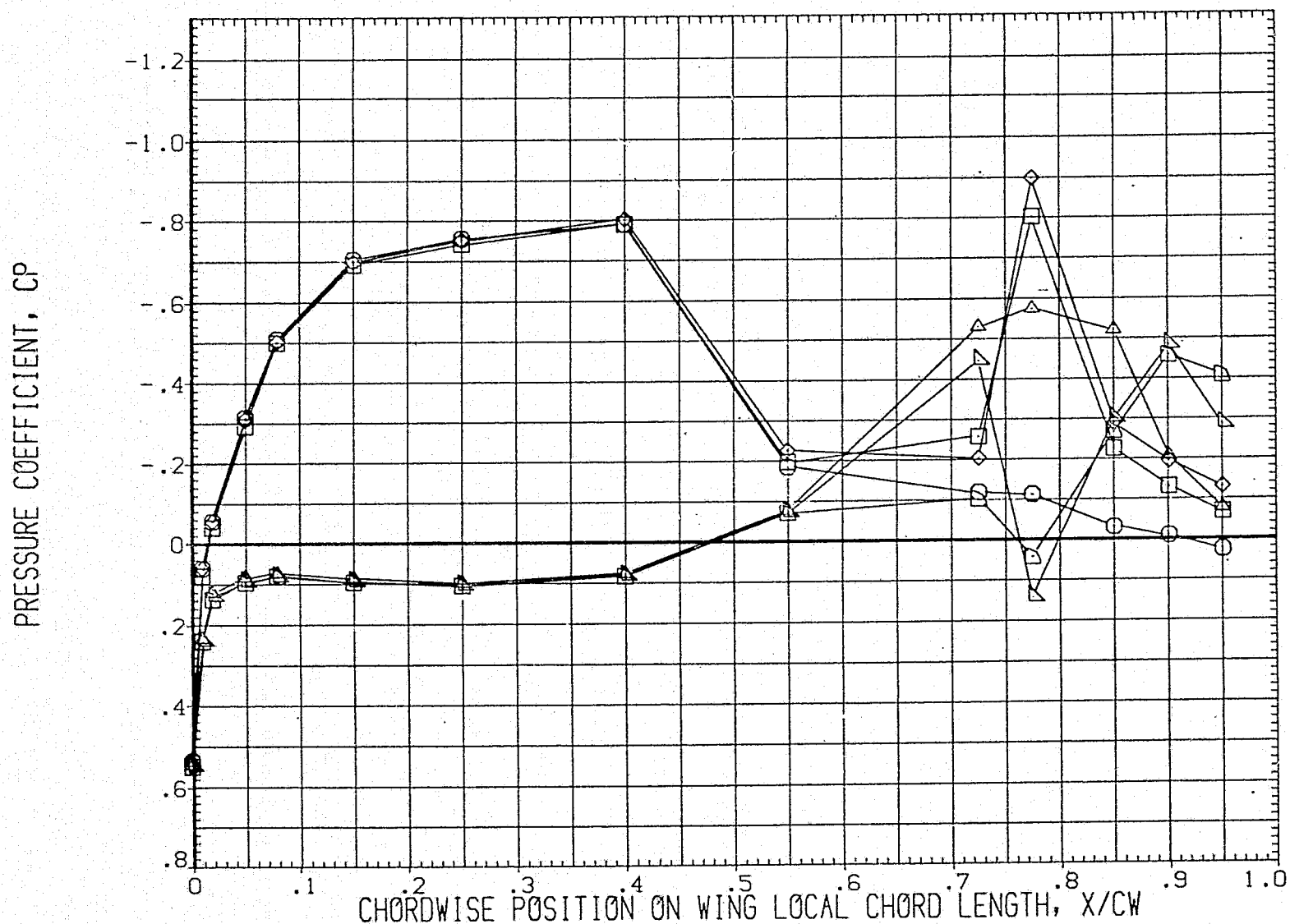


FIG. 82 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 0.9
 ALPHA0= 4.000 BETA0 = .000 Y/BW = .534 PAGE 1372

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-IB	RN/FT	ELV-OB
(IETU26)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.900	.000	2.250	.000
(IETU07)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	.900	8.000	2.250	4.000
(IETU17)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.900	10.000	2.250	4.000
(IETL26)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.900	.000	2.250	.000
(IETL07)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	.900	8.000	2.250	4.000
(IETL17)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.900	10.000	2.250	4.000

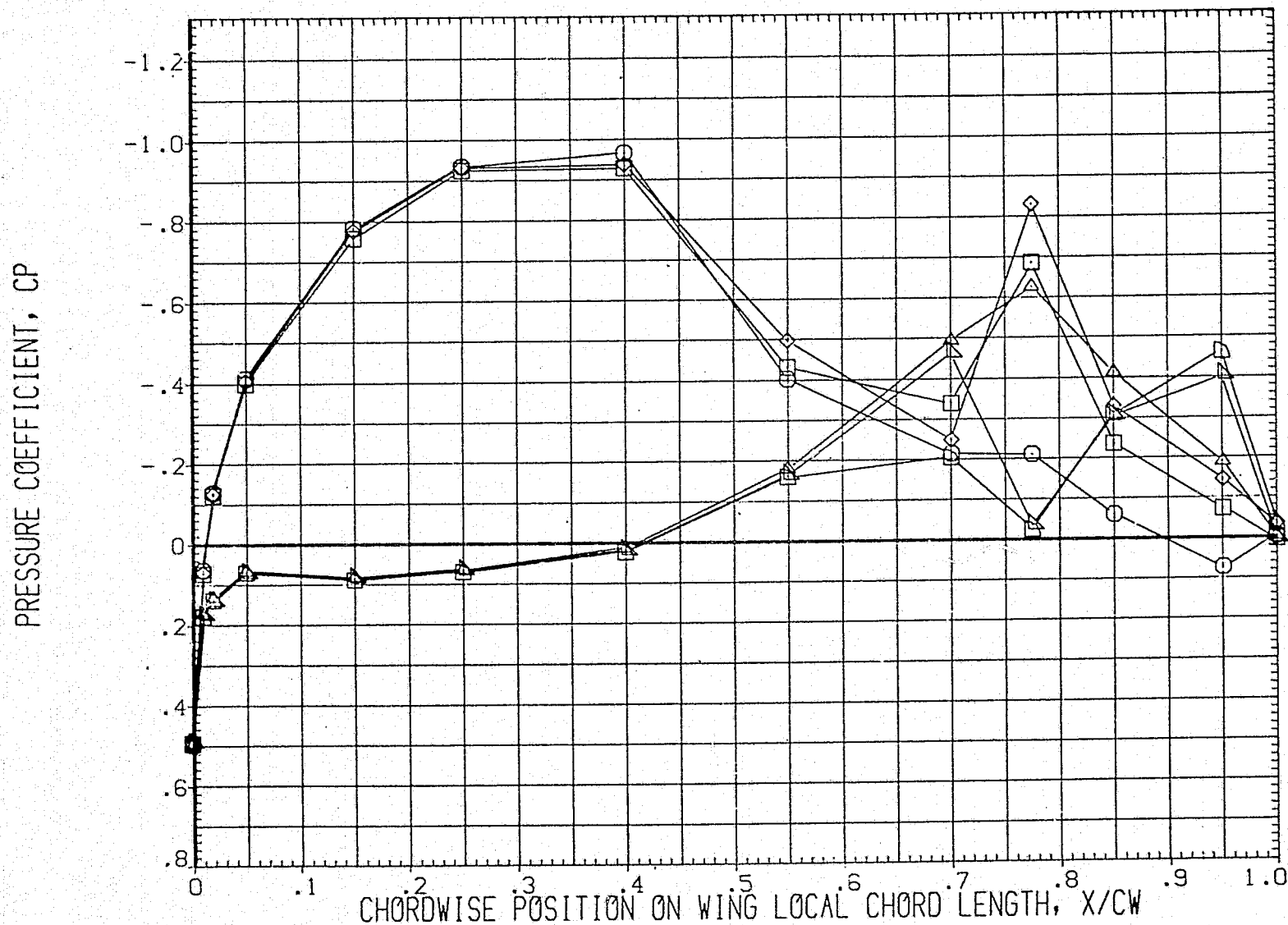


FIG. 82. WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 0.9

ALPHA0= 4.000 BETA0 = .000 Y/BW = .673

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(1ETU26)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.900	.000	2.250	.000
(1ETU07)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	.900	8.000	2.250	4.000
(1ETU17)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.900	10.000	2.250	4.000
(1ETL26)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.900	.000	2.250	.000
(1ETL07)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	.900	8.000	2.250	4.000
(1ETL17)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.900	10.000	2.250	4.000

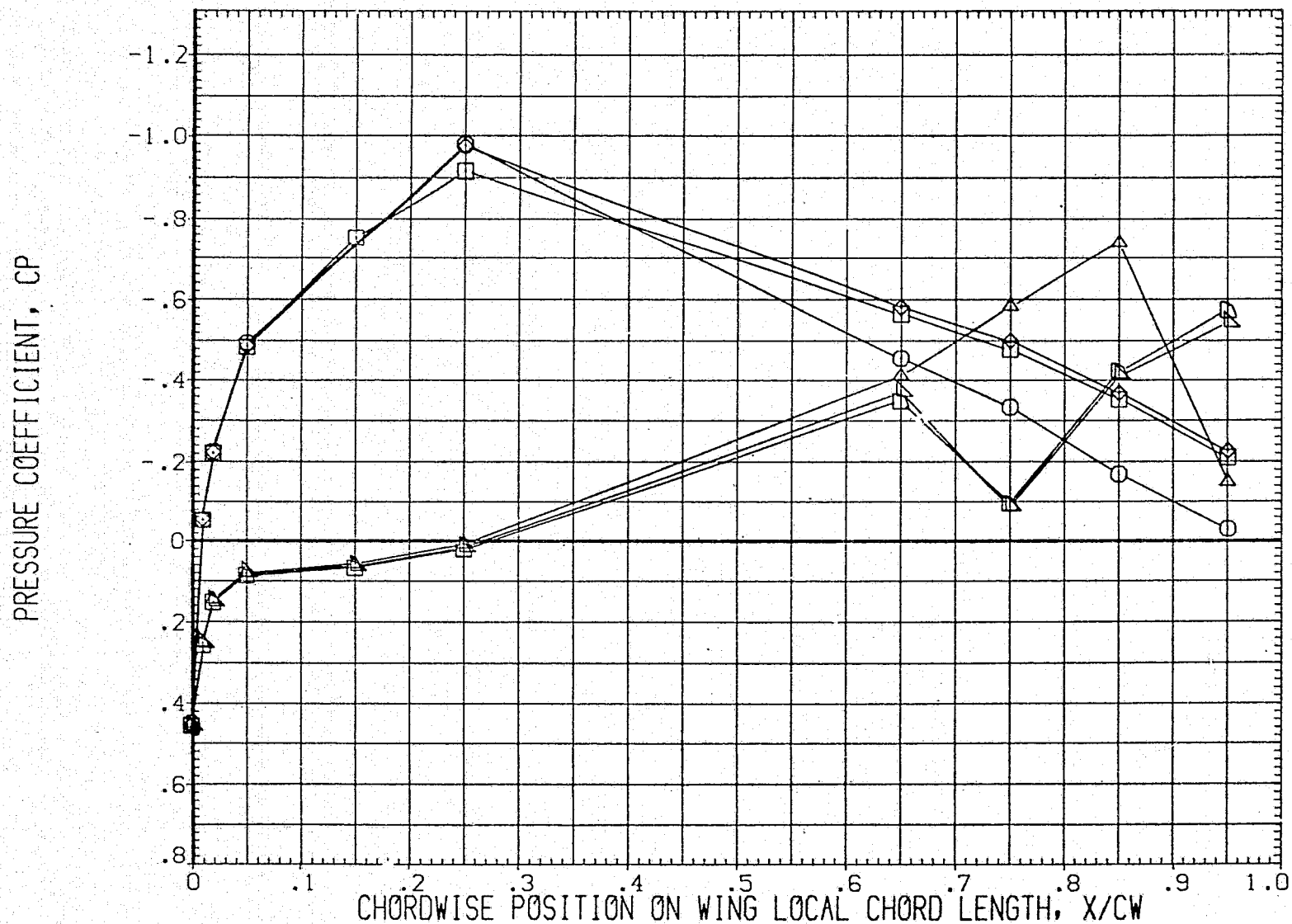


FIG. 82 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 0.9

ALPHA0= 4.000 BETA0 = .000 Y/BW = .780

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-IB	RN/FT	ELV-OB
(IETU26)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.900	.000	2.250	.000
(IETU07)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	.900	8.000	2.250	4.000
(IETU17)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.900	10.000	2.250	4.000
(IETL26)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.900	.000	2.250	.000
(IETL07)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	.900	8.000	2.250	4.000
(IETL17)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.900	10.000	2.250	4.000

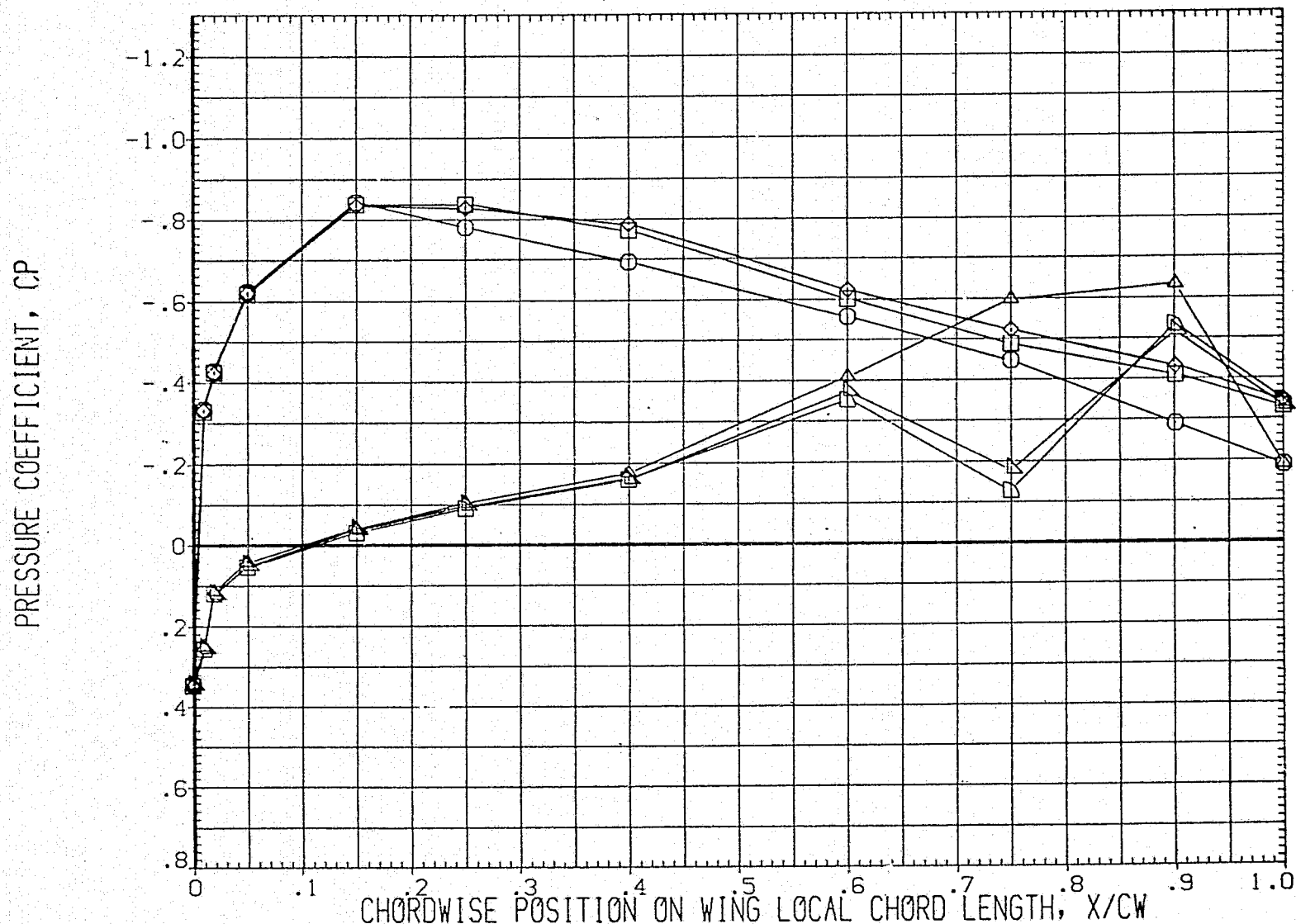


FIG. 82 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 0.9

ALPHA0= 4.000 BETA0 = .000 Y/BW = .887

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(1ETU26)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.900	.000	2.250	.000
(1ETU07)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	.900	8.000	2.250	4.000
(1ETU17)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	.900	10.000	2.250	4.000
(1ETL26)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.900	.000	2.250	.000
(1ETL07)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	.900	8.000	2.250	4.000
(1ETL17)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	.900	10.000	2.250	4.000

·PRESSURE COEFFICIENT, CP

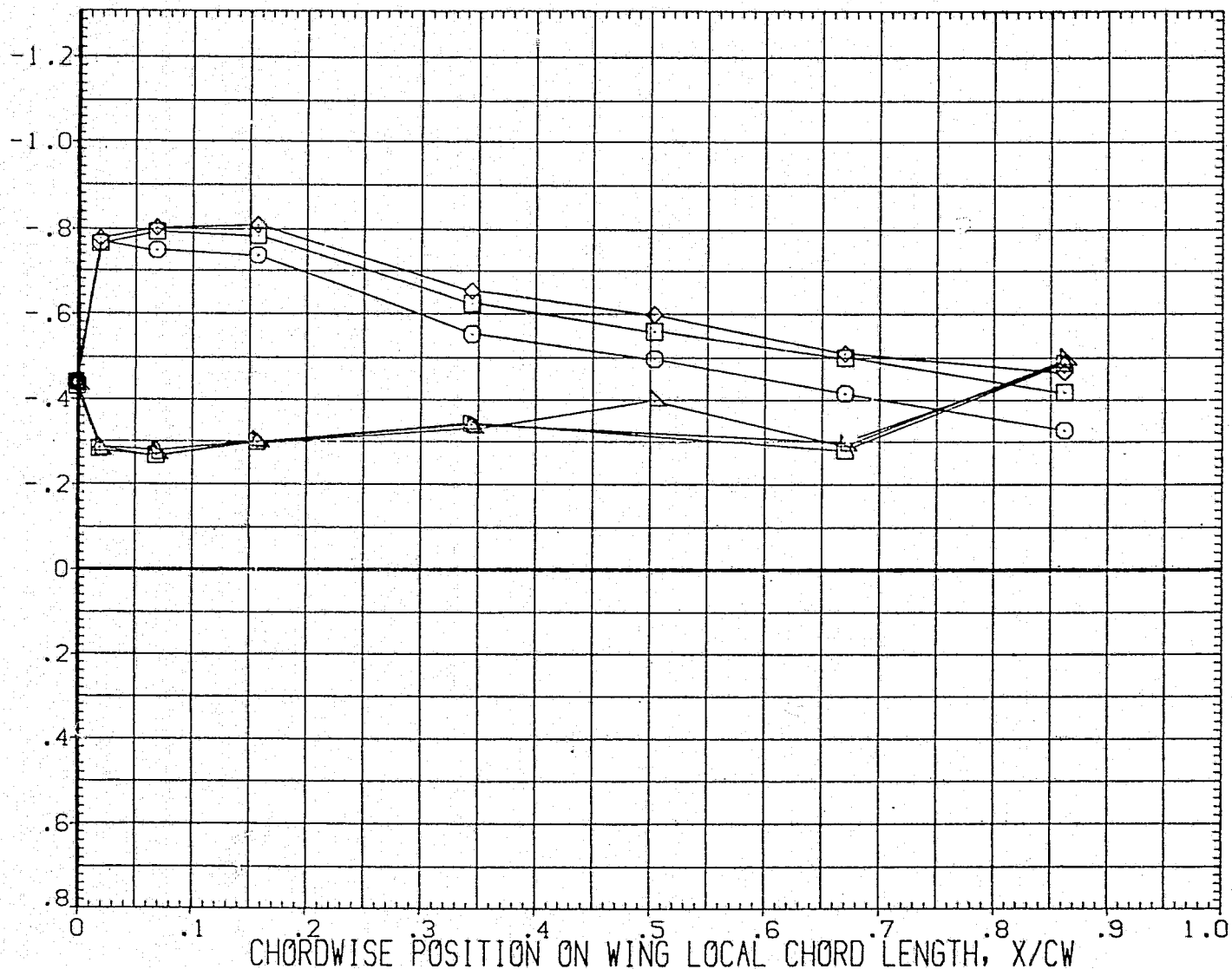


FIG. 82 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 0.9

ALPHA0= 4.000 BETA0 = .000 Y/BW = .972

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DATA SET SYMBOL CONFIGURATION DESCRIPTION

(IETU22) DATA NOT AVAILABLE
 (IETU09) ARC11-019 IAS1 LVAP(ELHL UNSEALED) LEFT WING TOP
 (IETU18) ARC11-019 IAS1 LVAP(ELHL SEALED) LEFT WING TOP
 (IETL22) DATA NOT AVAILABLE
 (IETL09) DATA NOT AVAILABLE
 (IETL18) DATA NOT AVAILABLE

MACH	ELV-18	RN/FT	ELV-08
1.100	.000	2.250	.000
1.100	8.000	2.250	4.000
1.100	10.000	2.250	4.000
1.100	.000	2.250	.000
1.100	8.000	2.250	4.000
1.100	10.000	2.250	4.000

PRESSURE COEFFICIENT, CP

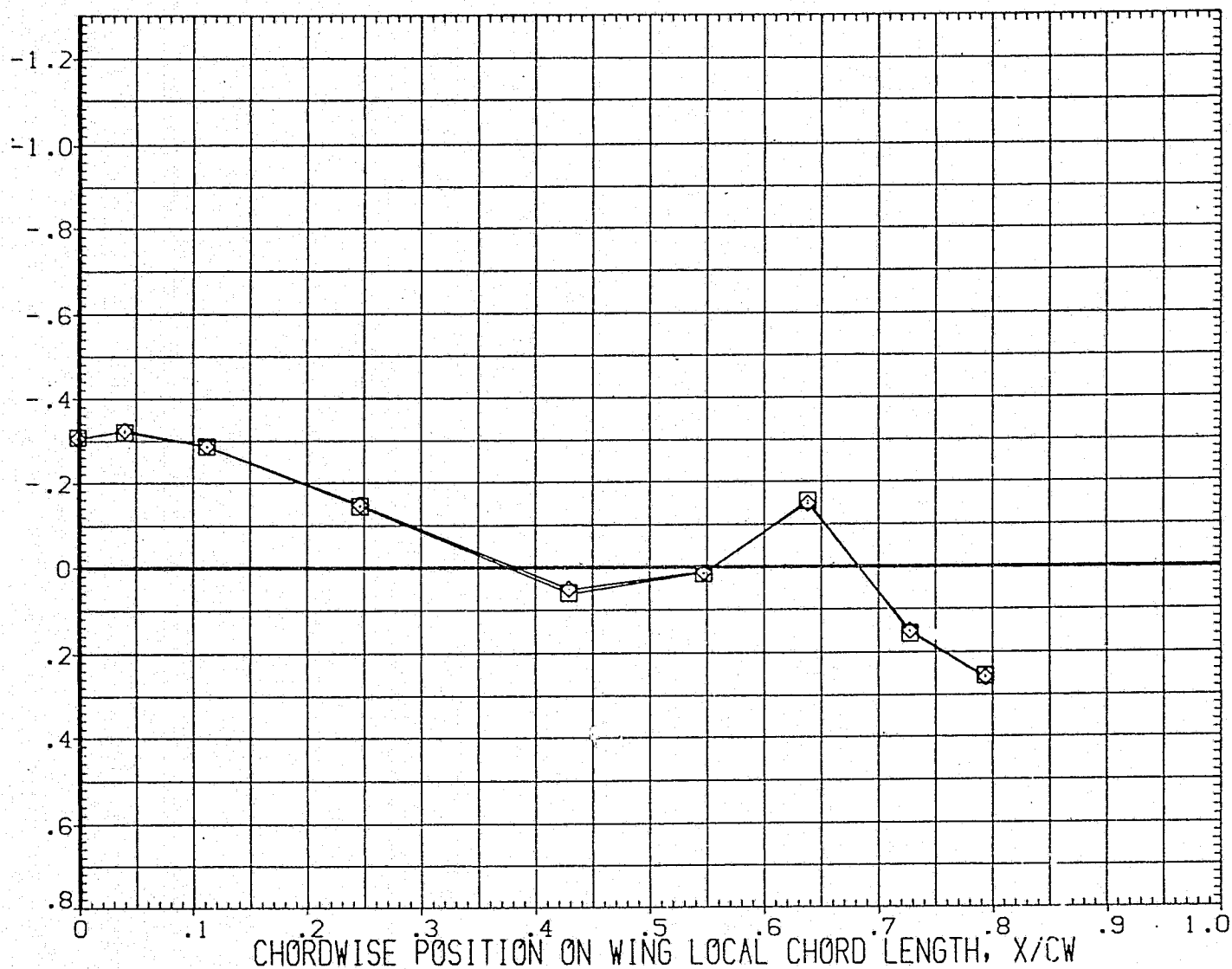


FIG. 83 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.1

ALPHA0= -4.000 BETA0 = .000 Y/BW = .235

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(IETU22) DATA NOT AVAILABLE
 (IETU09) ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP
 (IETU18) ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP
 (IETL22) DATA NOT AVAILABLE
 (IETL09) ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.
 (IETL18) ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.

MACH	ELV-18	RN/FT	ELV-08
1.100	.000	2.250	.000
1.100	8.000	2.250	4.000
1.100	10.000	2.250	4.000
1.100	.000	2.250	.000
1.100	8.000	2.250	4.000
1.100	10.000	2.250	4.000

PRESSURE COEFFICIENT, CP

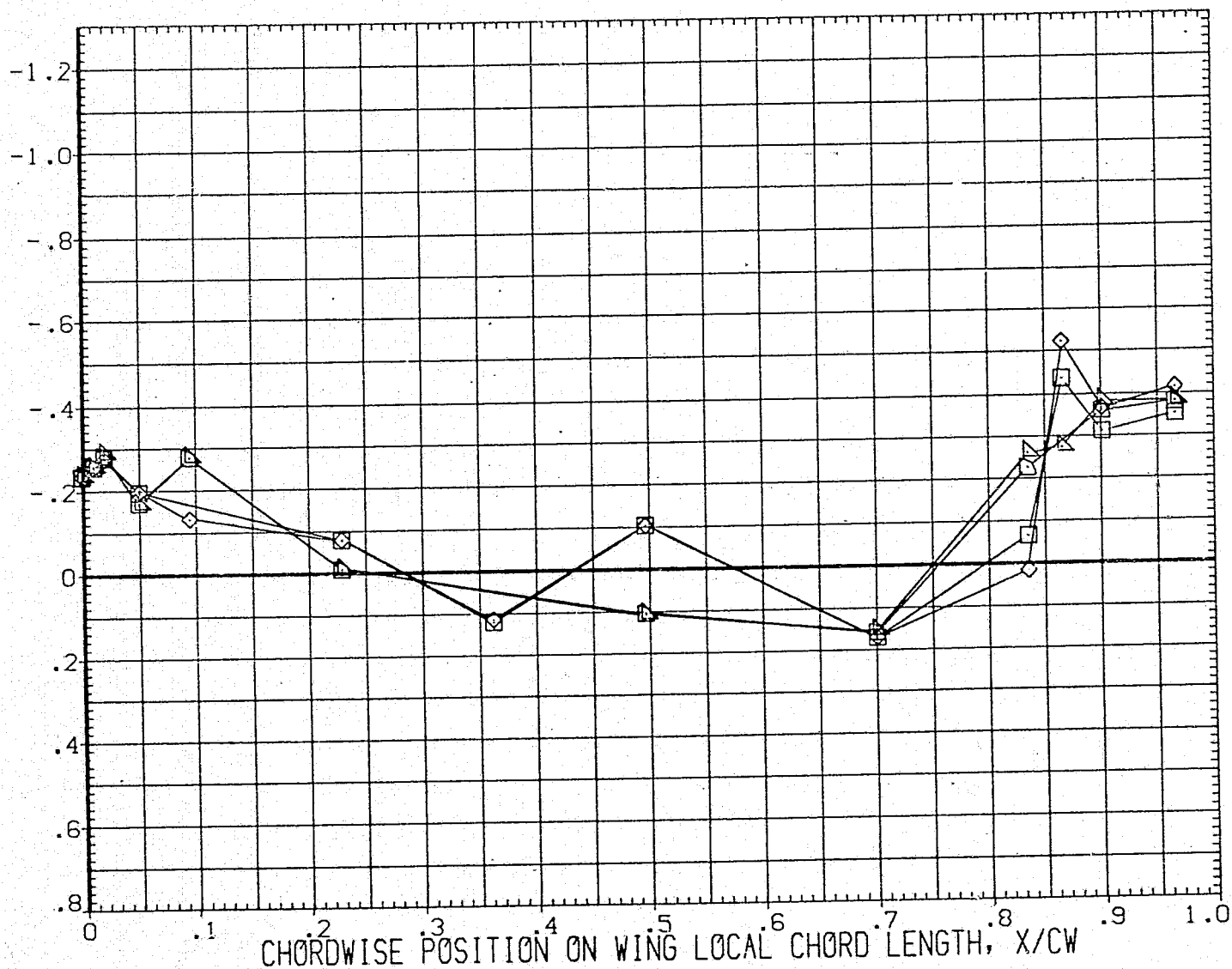


FIG. 83 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.1

ALPHA0= -4.000 BETA0 = .000 Y/BW = .299

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(1ETU22)	DATA NOT AVAILABLE	1.100	.000	2.250	.000
(1ETU09)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	1.100	8.000	2.250	4.000
(1ETU18)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.100	10.000	2.250	4.000
(1ETL22)	DATA NOT AVAILABLE	1.100	.000	2.250	.000
(1ETL09)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	1.100	8.000	2.250	4.000
(1ETL18)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.100	10.000	2.250	4.000

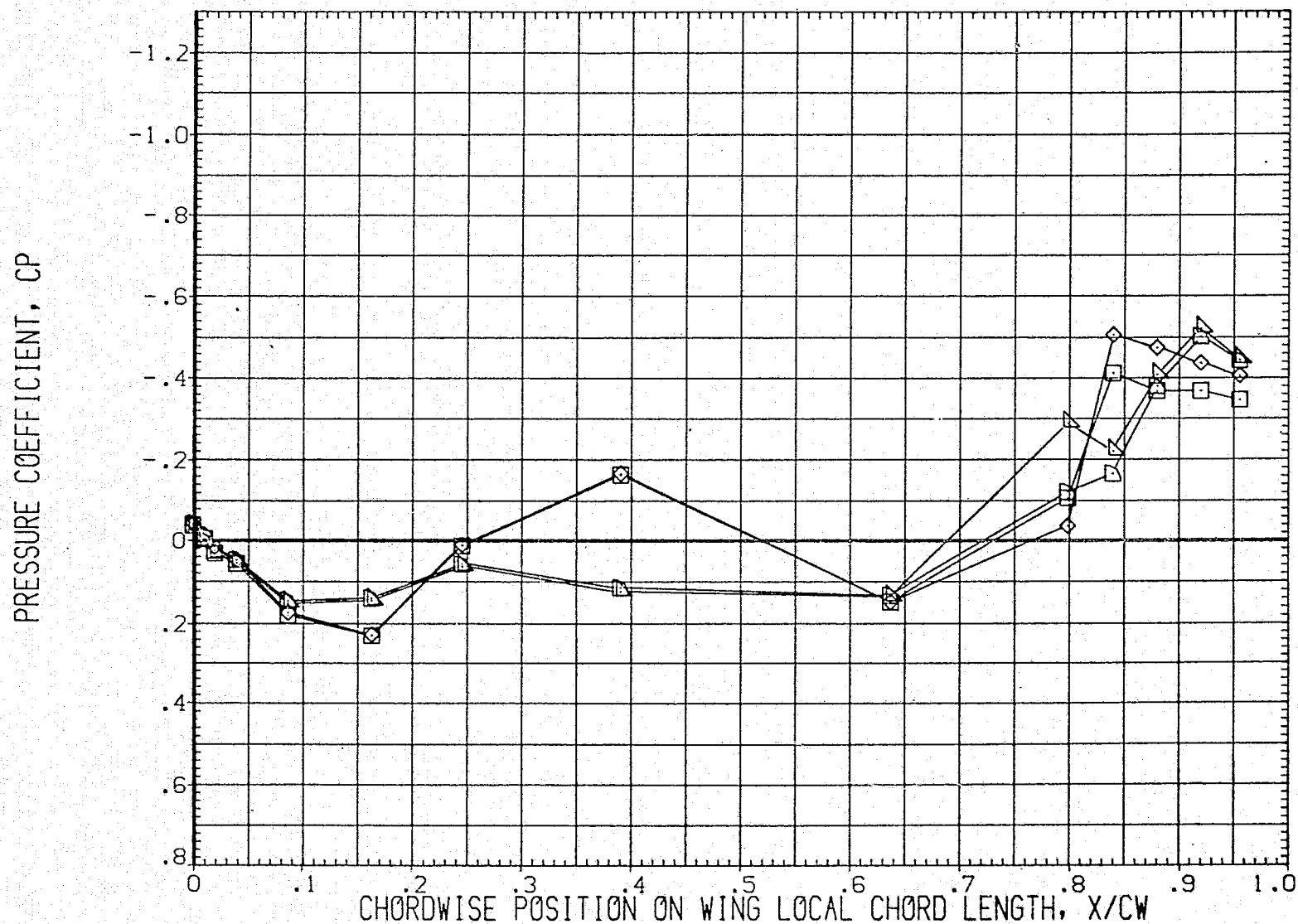


FIG. 83 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.1

ALPHA0= -4.000 BETA0 = .000 Y/BW = .364

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-IB	RN/FT	ELV-OB
(IETU22)	DATA NOT AVAILABLE	1.100	.000	2.250	.000
(IETU09)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	1.100	8.000	2.250	4.000
(IETU18)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.100	10.000	2.250	4.000
(IETL22)	DATA NOT AVAILABLE	1.100	.000	2.250	.000
(IETL09)	74C11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	1.100	8.000	2.250	4.000
(IETL18)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.100	10.000	2.250	4.000

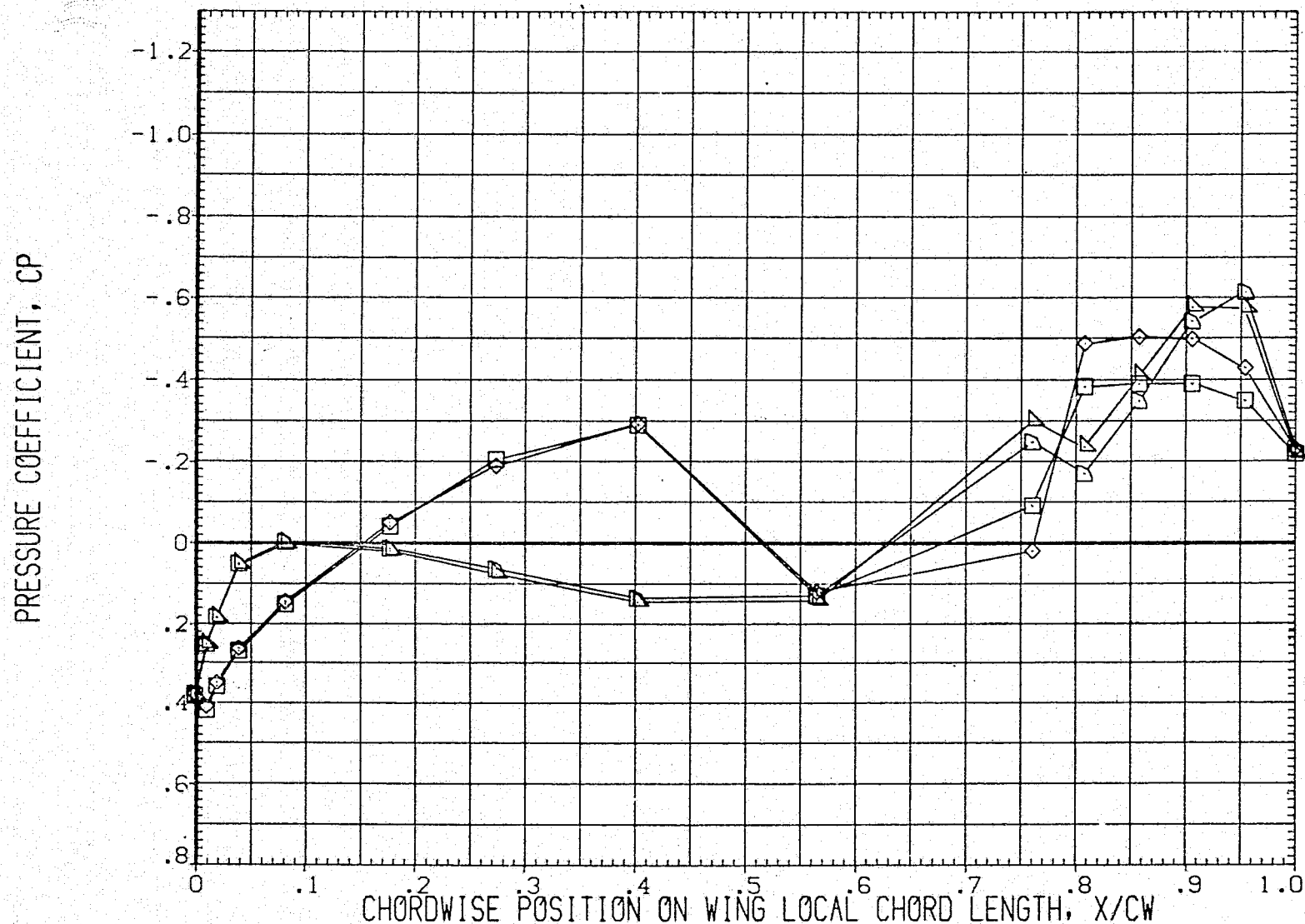


FIG. 83 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.1

ALPHA0= -4.000 BETA0 = .000 Y/BW = .427

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DATA SET SYMBOL CONFIGURATION DESCRIPTION

(IETU22) DATA NOT AVAILABLE
 (IETU09) ARC11-019 IA81 LVAP(ELHL UNSEALED) LEFT WING TOP
 (IETU18) ARC11-019 IA81 LVAP(ELHL SEALED) LEFT WING TOP
 (IETL22) DATA NOT AVAILABLE
 (IETL09) ARC11-019 IA81 LVAP(ELHL UNSEALED) LEFT WING BOT.
 (IETL18) ARC11-019 IA81 LVAP(ELHL SEALED) LEFT WING BOT.

MACH	ELV-IB	RN/FT	ELV-OB
1.100	.000	2.250	.000
1.100	8.000	2.250	4.000
1.100	10.000	2.250	4.000
1.100	.000	2.250	.000
1.100	8.000	2.250	4.000
1.100	10.000	2.250	4.000

PRESSURE COEFFICIENT, CP

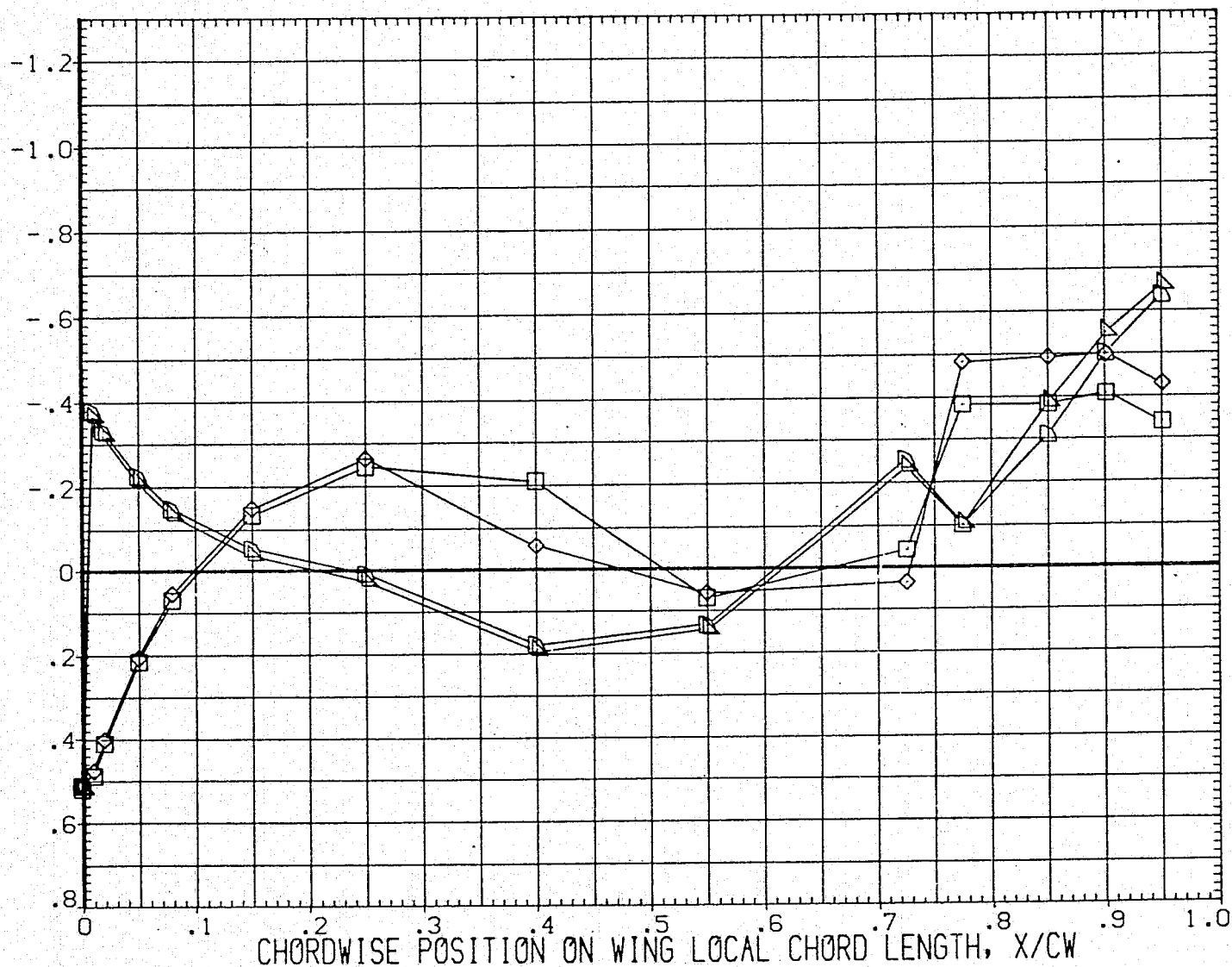


FIG. 83 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPD3RK= 0, MACH = 1.1

ALPHA0= -4.000 BETA0 = .000 Y/BW = .534

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-18	RN/FT	ELV-08
(1ETU22)	DATA NOT AVAILABLE	1.100	.000	2.250	.000
(1ETU09)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	1.100	8.000	2.250	4.000
(1ETU18)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.100	10.000	2.250	4.000
(1ETL22)	DATA NOT AVAILABLE	1.100	.000	2.250	.000
(1ETL09)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	1.100	8.000	2.250	4.000
(1ETL18)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.100	10.000	2.250	4.000

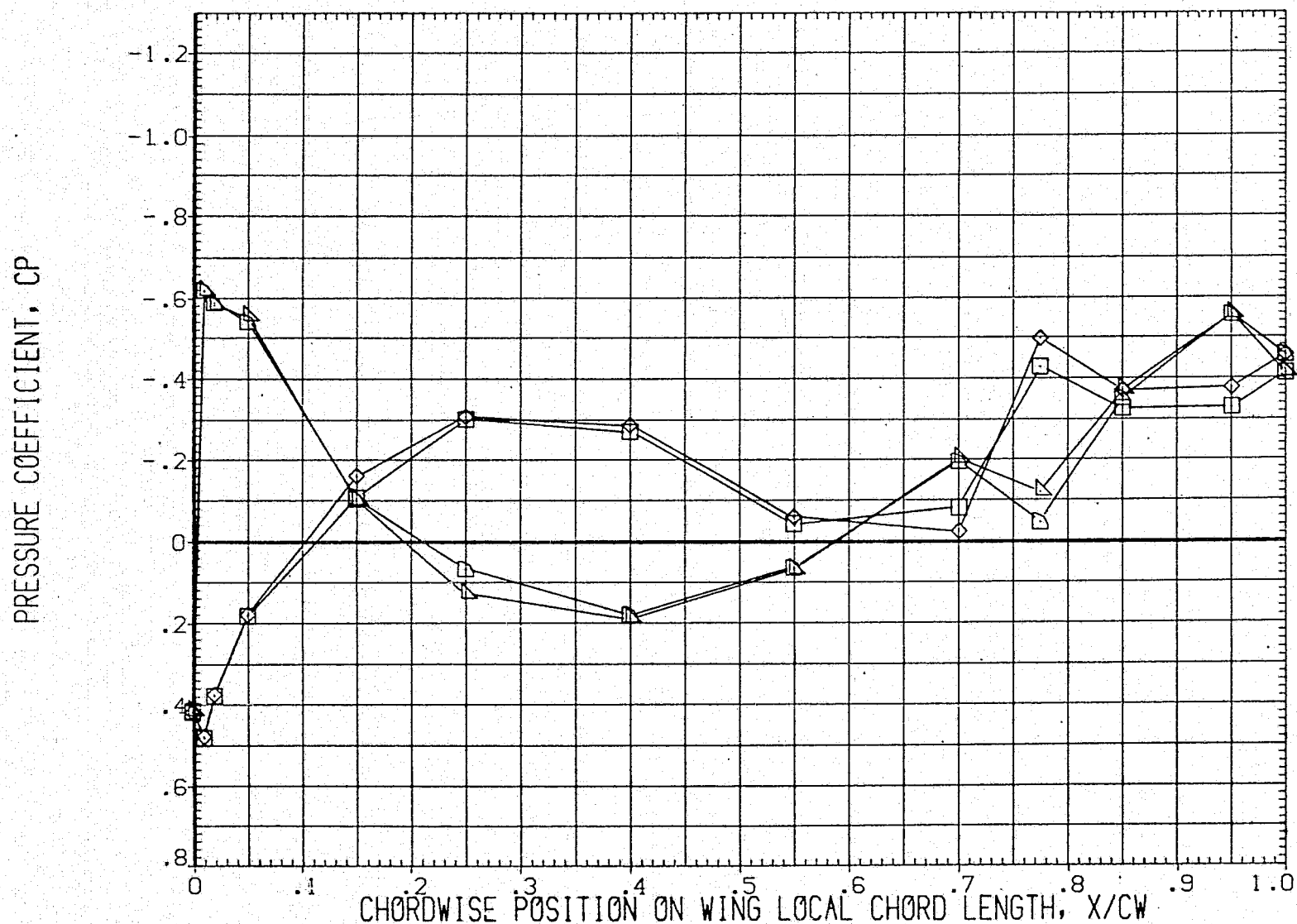


FIG. 83 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0. MACH = 1.1

ALPHA0= -4.000 BETA0 = .000 Y/BW = .673

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-18	RN/FT	ELV-08
(IETU22)	DATA NOT AVAILABLE	1.100	.000	2.250	.000
(IETU09)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	1.100	8.000	2.250	4.000
(IETU18)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.100	10.000	2.250	4.000
(IETL22)	DATA NOT AVAILABLE	1.100	.000	2.250	.000
(IETL09)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	1.100	8.000	2.250	4.000
(IETL18)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.100	10.000	2.250	4.000

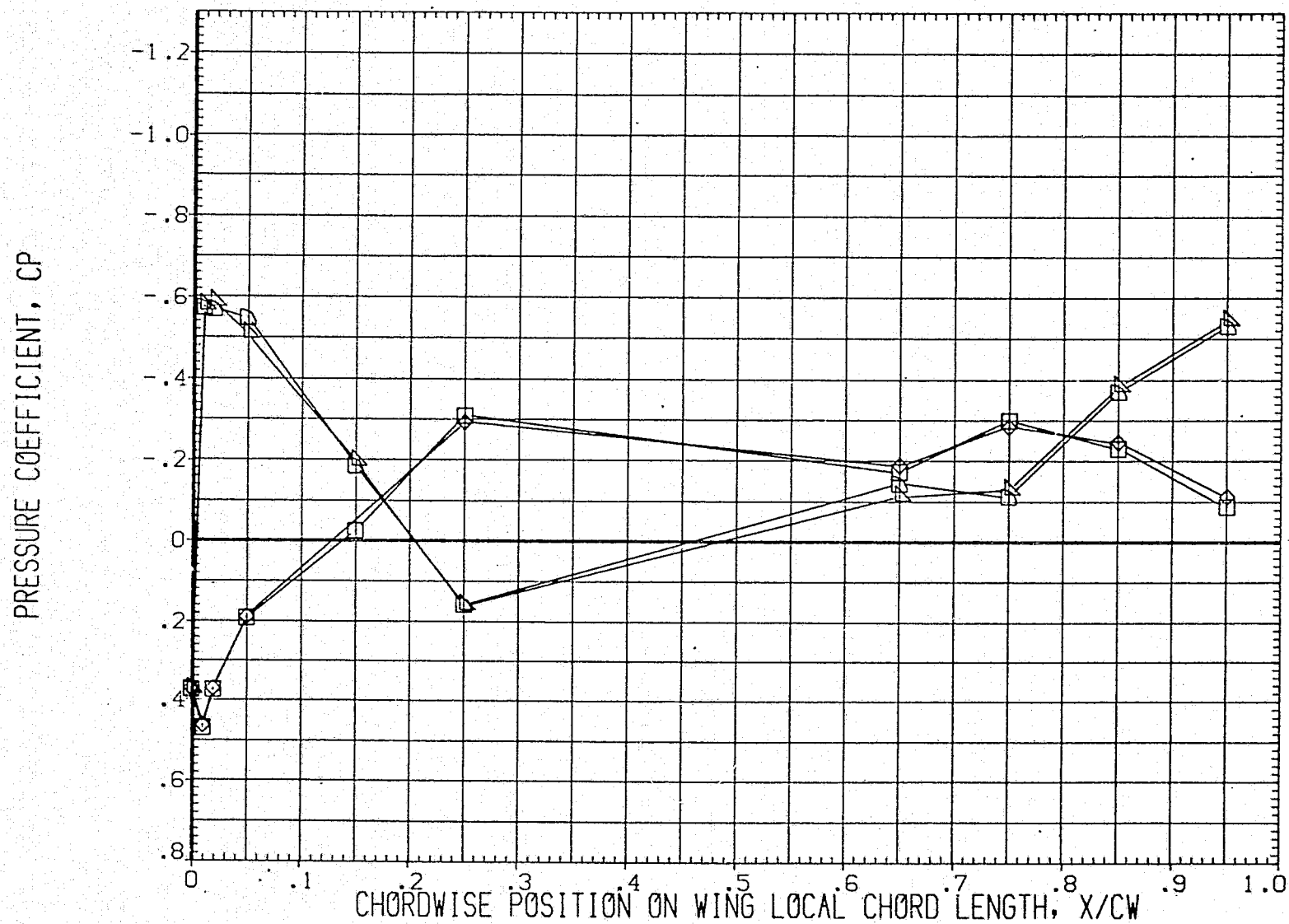


FIG. 83 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0. MACH = 1.1

ALPHA0 = -4.000 BETA0 = .000 Y/BW = .780

DATA SET-SYMBOL CONFIGURATION DESCRIPTION

(IETU22)	DATA NOT AVAILABLE
(IETU09)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP
(IETU18)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP
(IETL22)	DATA NOT AVAILABLE
(IETL09)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.
(IETL18)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.

MACH	ELV-18	RN/FT	ELV-08
1.100	8.000	2.250	.000
1.100	8.000	2.250	4.000
1.100	10.000	2.250	4.000
1.100	.000	2.250	.000
1.100	8.000	2.250	4.000
1.100	10.000	2.250	4.000

PRESSURE COEFFICIENT, CP

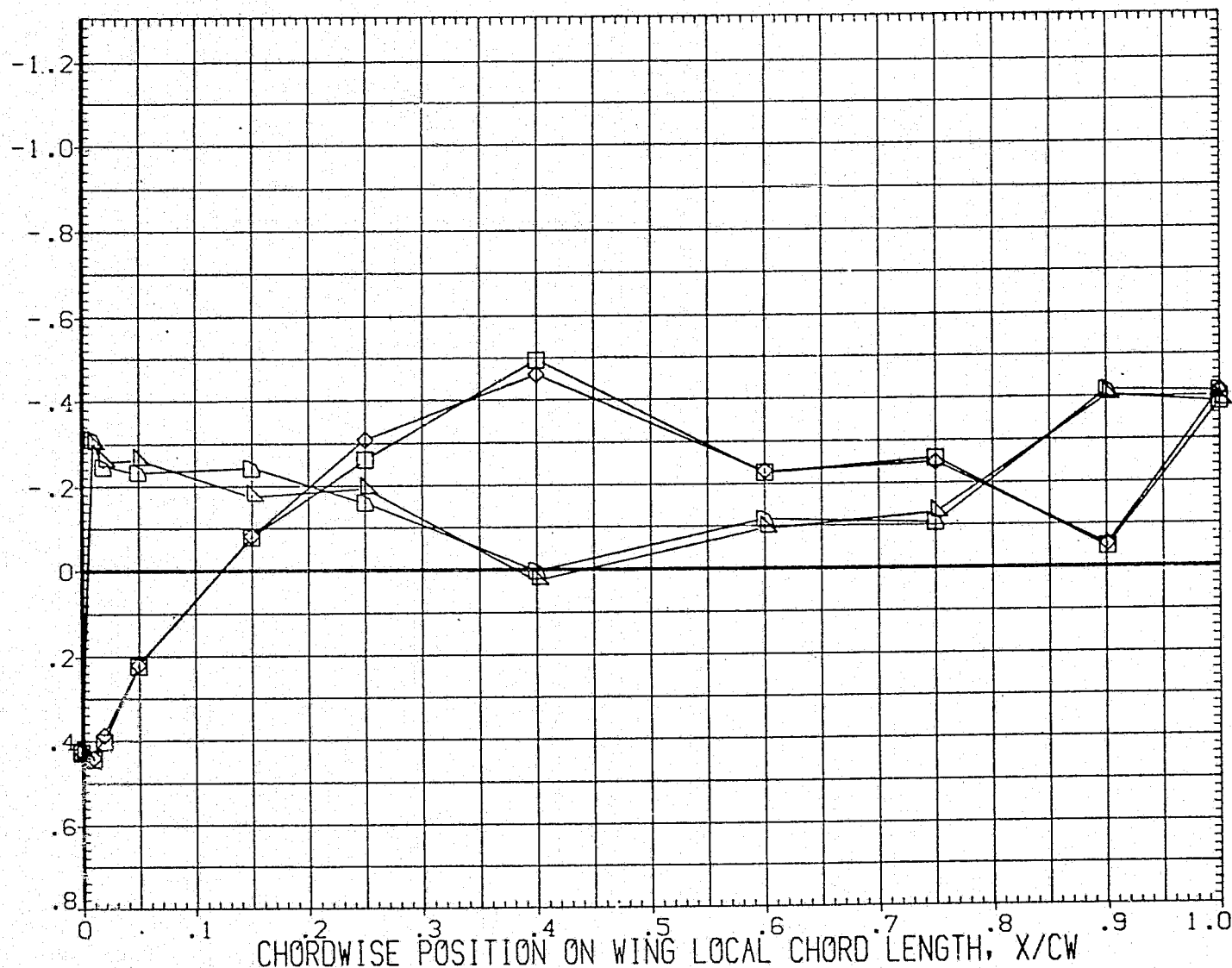


FIG. 83 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.1

ALPHA0= -4.000 BETA0 = .000 Y/BW = .887

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-18	RN/FT	ELV-08
(IETU22)	DATA NOT AVAILABLE	1.100	.000	2.250	.000
(IETU03)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	1.100	8.000	2.250	4.000
(IETU18)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.100	10.000	2.250	4.000
(IETL22)	DATA NOT AVAILABLE	1.100	.000	2.250	.000
(IETL09)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	1.100	8.000	2.250	4.000
(IETL18)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.100	10.000	2.250	4.000

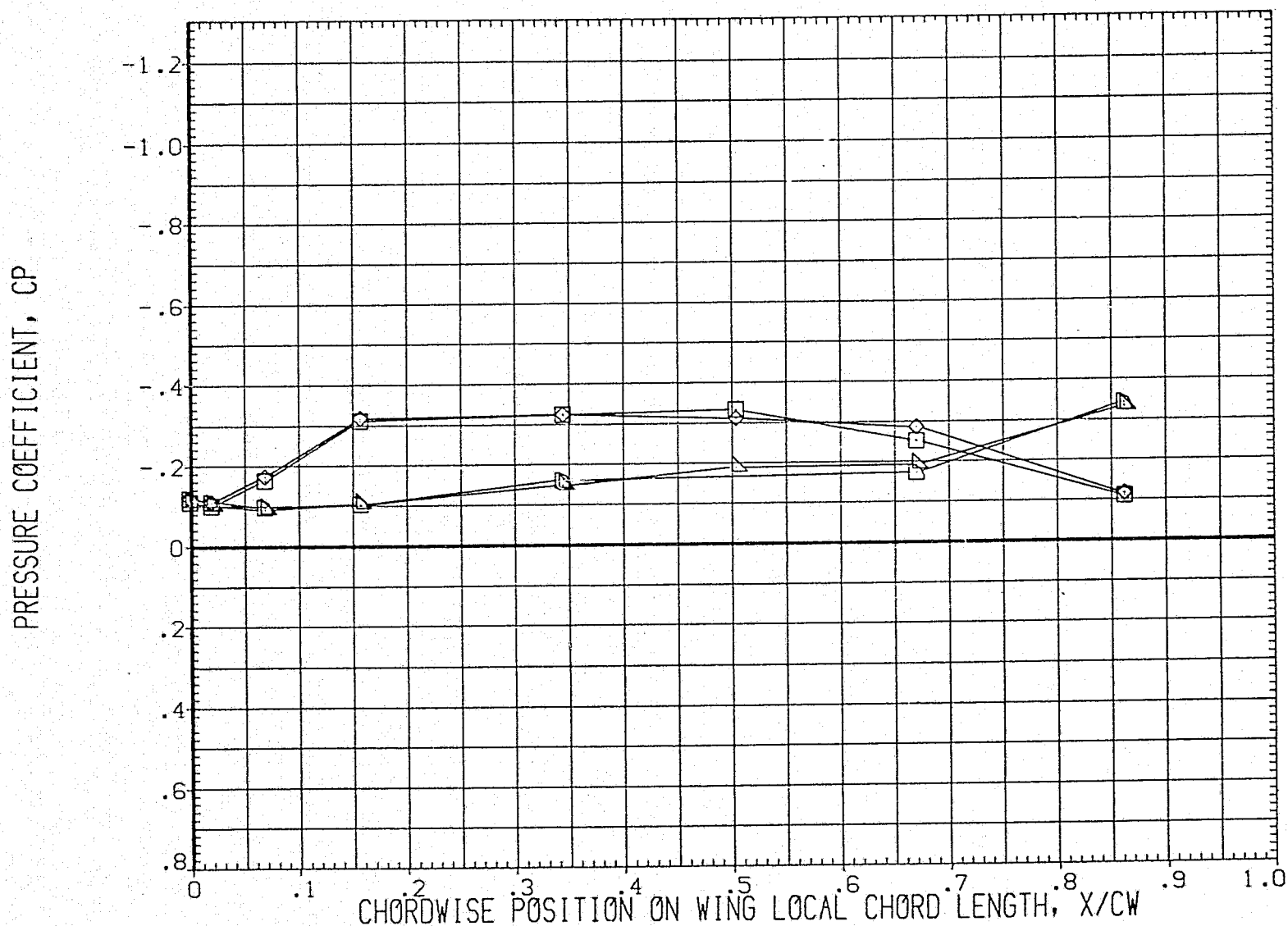


FIG. 83 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.1

ALPHA0= -4.000 BETA0 = .000 Y/BW = .972

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-18	RN/FT	ELV-08
(IETU22)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.100	.000	2.250	.000
(IETU09)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	1.100	8.000	2.250	4.000
(IETU18)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.100	10.000	2.250	4.000
(IETL22)	DATA NOT AVAILABLE	1.100	.000	2.250	.000
(IETL09)	DATA NOT AVAILABLE	1.100	8.000	2.250	4.000
(IETL18)	DATA NOT AVAILABLE	1.100	10.000	2.250	4.000

PRESSURE COEFFICIENT, CP

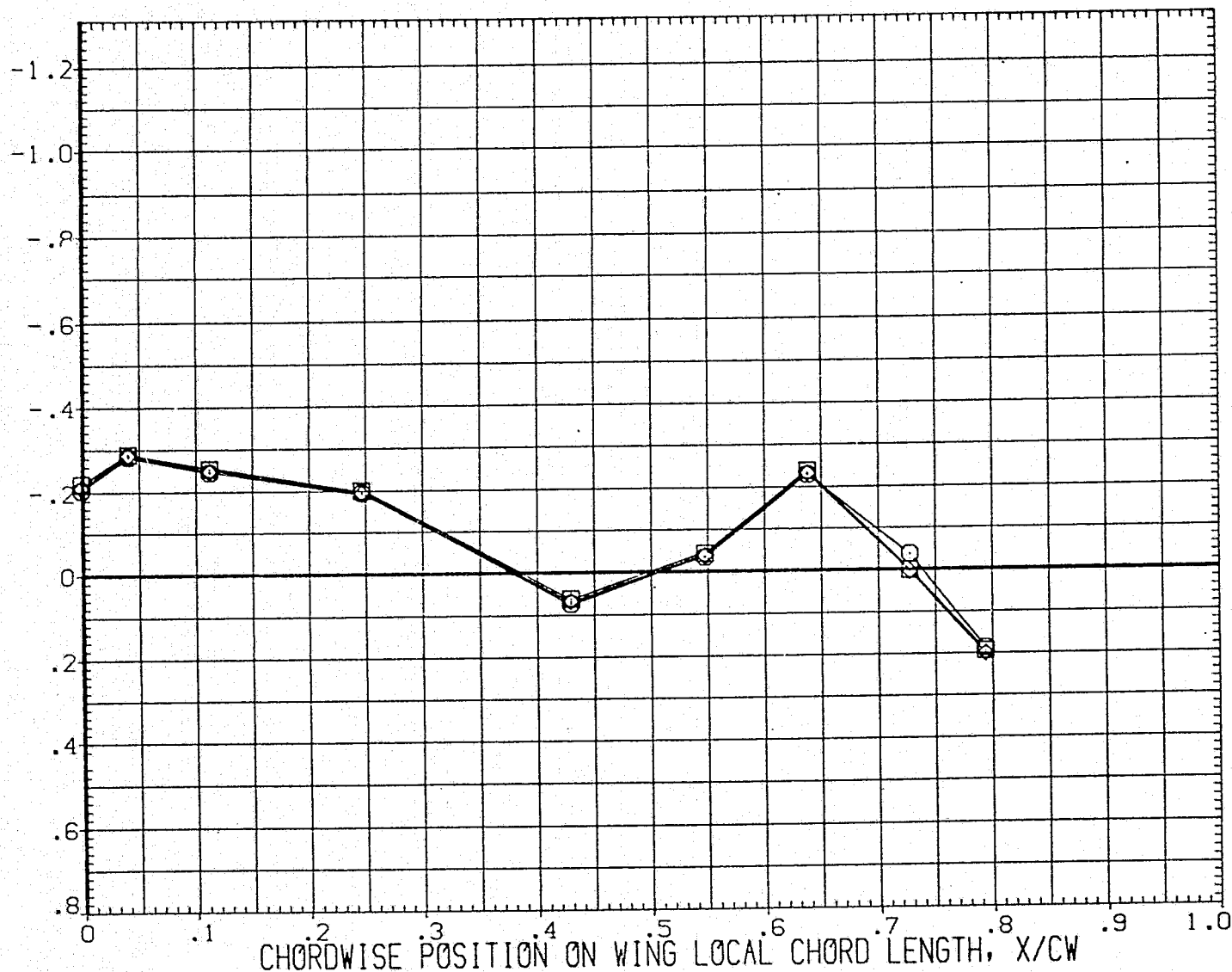


FIG. 83 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.1

ALPHA0= .000 BETA0 = .000 Y/BW = .235

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(IETU22)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.100	.000	2.250	.000
(IETU09)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	1.100	8.000	2.250	4.000
(IETU18)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.100	10.000	2.250	4.000
(IETL22)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.100	.000	2.250	.000
(IETL09)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	1.100	8.000	2.250	4.000
(IETL18)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.100	10.000	2.250	4.000

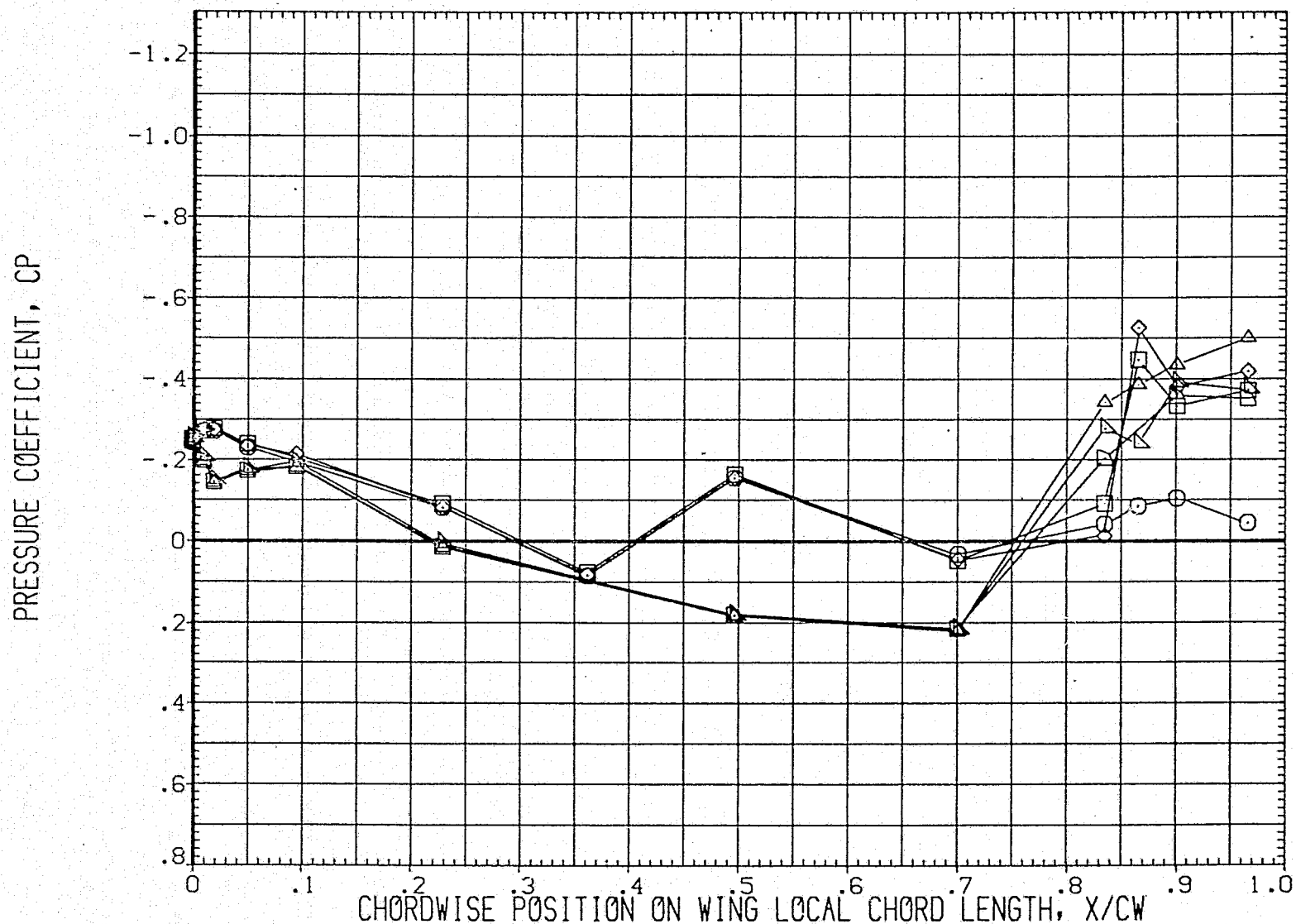


FIG. 83 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.1

ALPHA0= .000 RFTAN = .000 Y/BW = .299

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-09
(1ETU22)	ARC11-019 (A81 LVAP(ELHL SEALED) LEFT WING TOP	1.100	.000	2.250	.000
(1ETU09)	ARC11-019 (A81 LVAP(ELHL UNSEALED) LEFT WING TOP	1.100	8.000	2.250	4.000
(1ETU18)	ARC11-019 (A81 LVAP(ELHL SEALED) LEFT WING TOP	1.100	10.000	2.250	4.000
(1ETL22)	ARC11-019 (A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.100	.000	2.250	.000
(1ETL09)	ARC11-019 (A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	1.100	8.000	2.250	4.000
(1ETL18)	ARC11-019 (A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.100	10.000	2.250	4.000

PRESSURE COEFFICIENT, CP

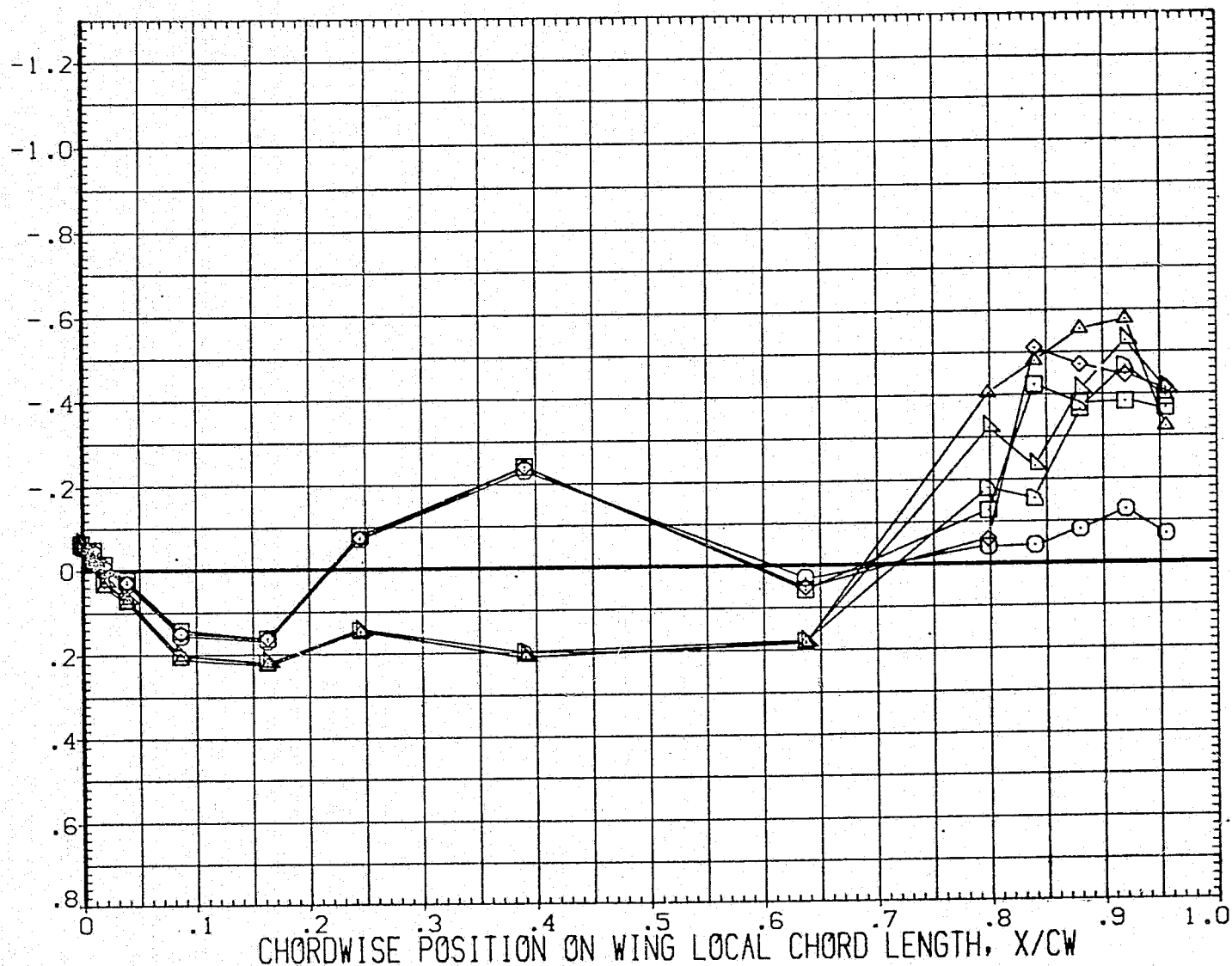


FIG. 83 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.1

ALPHA0= .000 BETA0 = .000 Y/BW = .364

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(IETU22)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.100	.000	2.250	.000
(IETU09)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	1.100	8.000	2.250	4.000
(IETU18)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.100	10.000	2.250	4.000
(IETL22)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.100	.000	2.250	.000
(IETL09)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	1.100	8.000	2.250	4.000
(IETL18)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.100	10.000	2.250	4.000

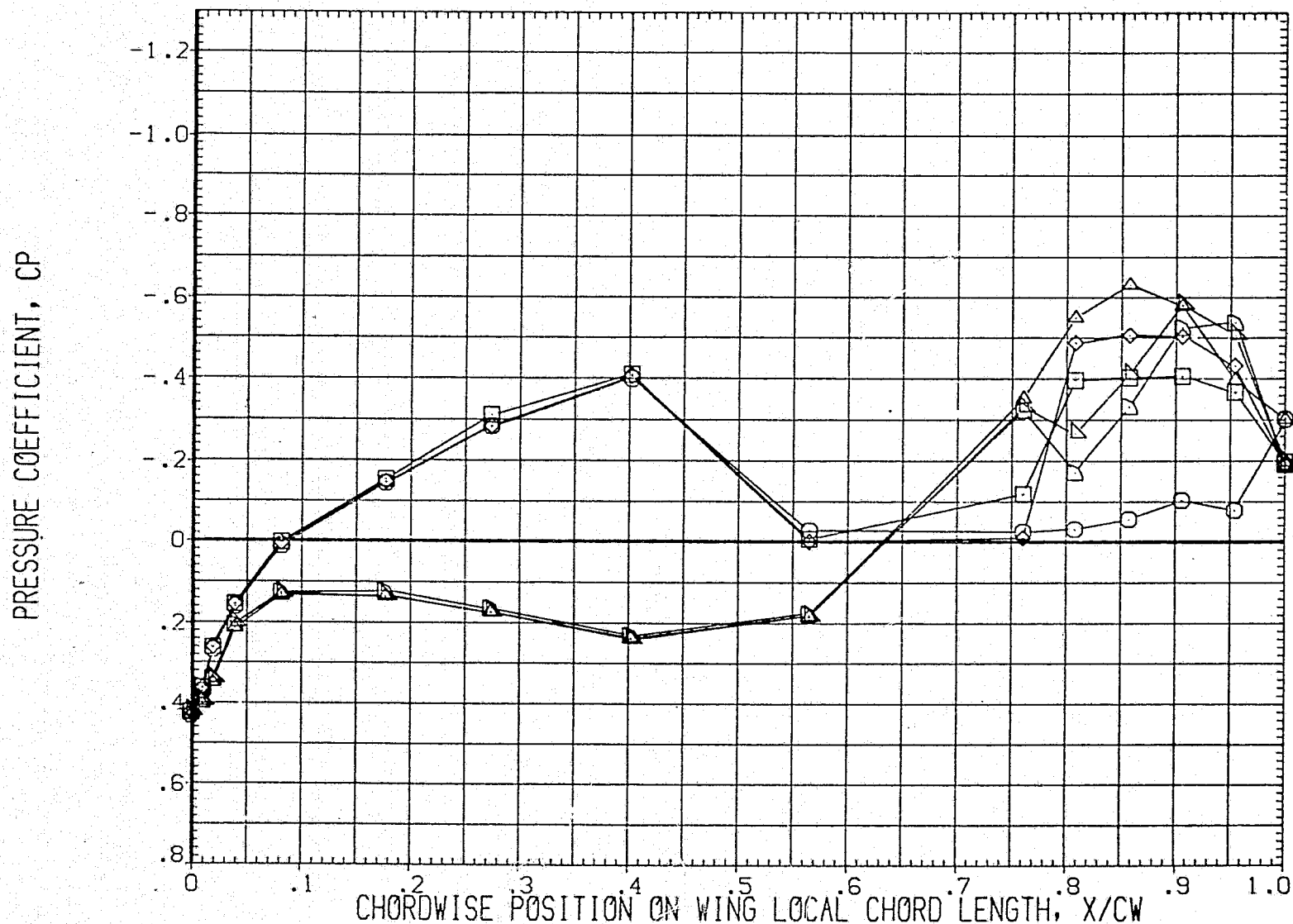


FIG. 83 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.1
 ALPHA0= .000 BETA0 = .000 Y/BW = .427 PAGE 1389

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(IETU22)	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING TOP	1.100	.000	2.250	.000
(IETU09)	ARC11-019 IAB1 LVAP(ELHL UNSEALED) LEFT WING TOP	1.100	8.000	2.250	4.000
(IETU18)	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING TOP	1.100	10.000	2.250	4.000
(IETL22)	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING BOT.	1.100	.000	2.250	.000
(IETL09)	ARC11-019 IAB1 LVAP(ELHL UNSEALED) LEFT WING BOT.	1.100	8.000	2.250	4.000
(IETL18)	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING BOT.	1.100	10.000	2.250	4.000

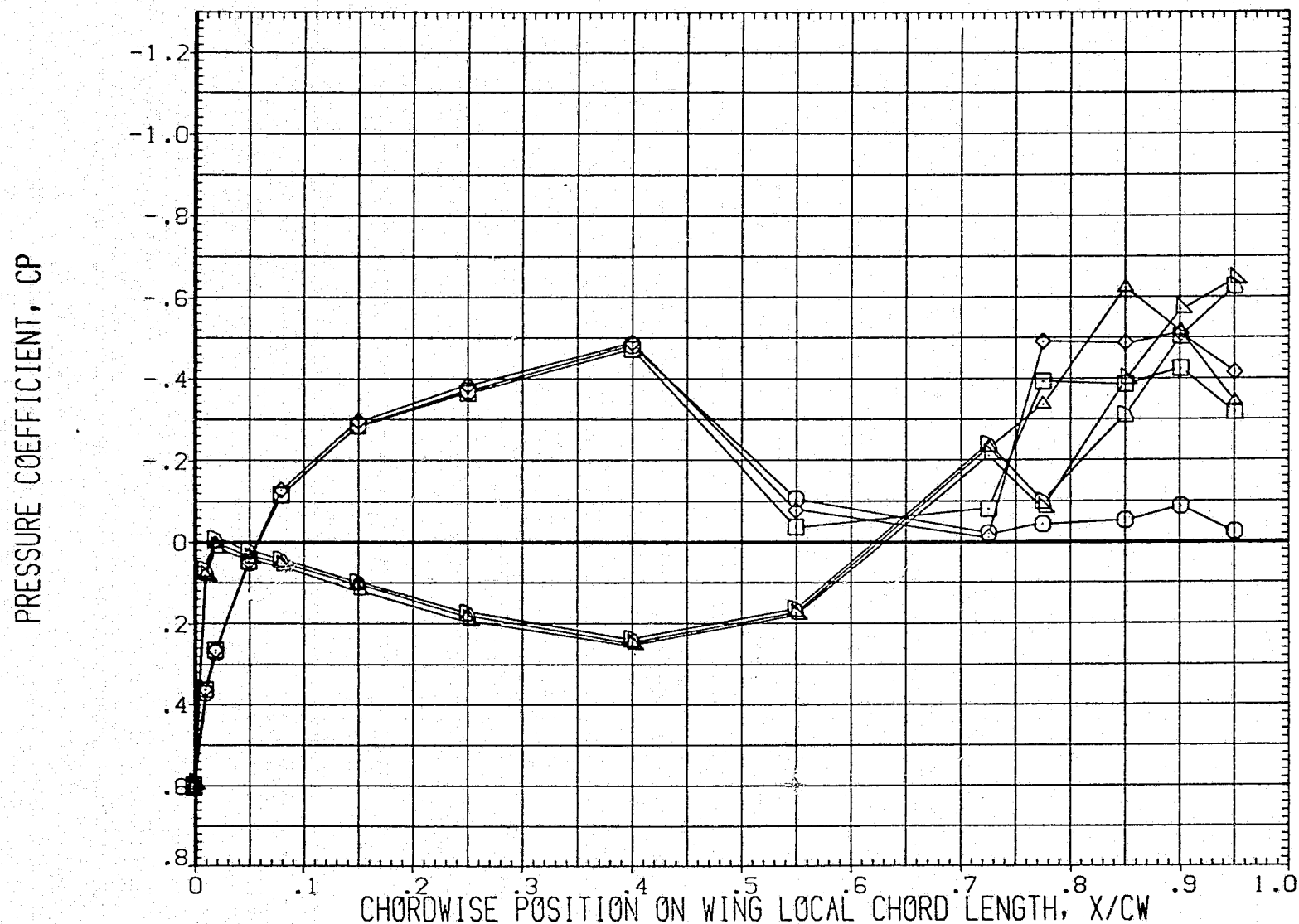


FIG. 83 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0. MACH = 1.1

ALPHA0= .000 BETA0 = .000 Y/BW = .534

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-IB	RN/FT	ELV-OB
(IETU22)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.100	.000	2.250	.000
(IETU09)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	1.100	8.000	2.250	4.000
(IETU18)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.100	10.000	2.250	4.000
(IETL22)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.100	.000	2.250	.000
(IETL09)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	1.100	8.000	2.250	4.000
(IETL18)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.100	10.000	2.250	4.000

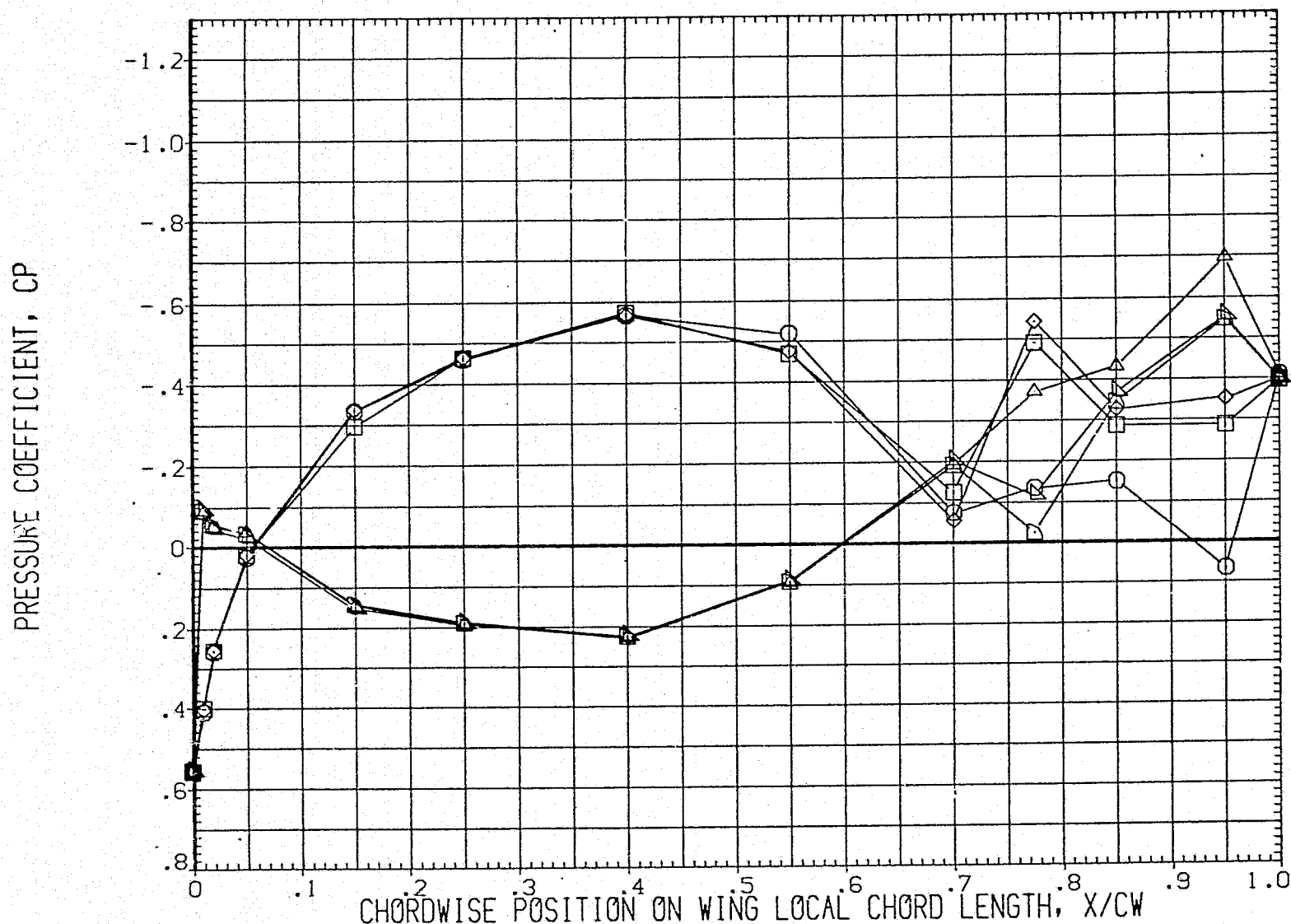


FIG. 83 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.1

ALPHA0= .000 BETA0 = .000 Y/BW = .673

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-CB
(IETU22)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.100	.000	2.250	.000
(IETU09)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	1.100	8.000	2.250	4.000
(IETU18)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.100	10.000	2.250	4.000
(IETL22)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.100	.000	2.250	.000
(IETL09)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	1.100	8.000	2.250	4.000
(IETL18)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.100	10.000	2.250	4.000

PRESSURE COEFFICIENT, CP

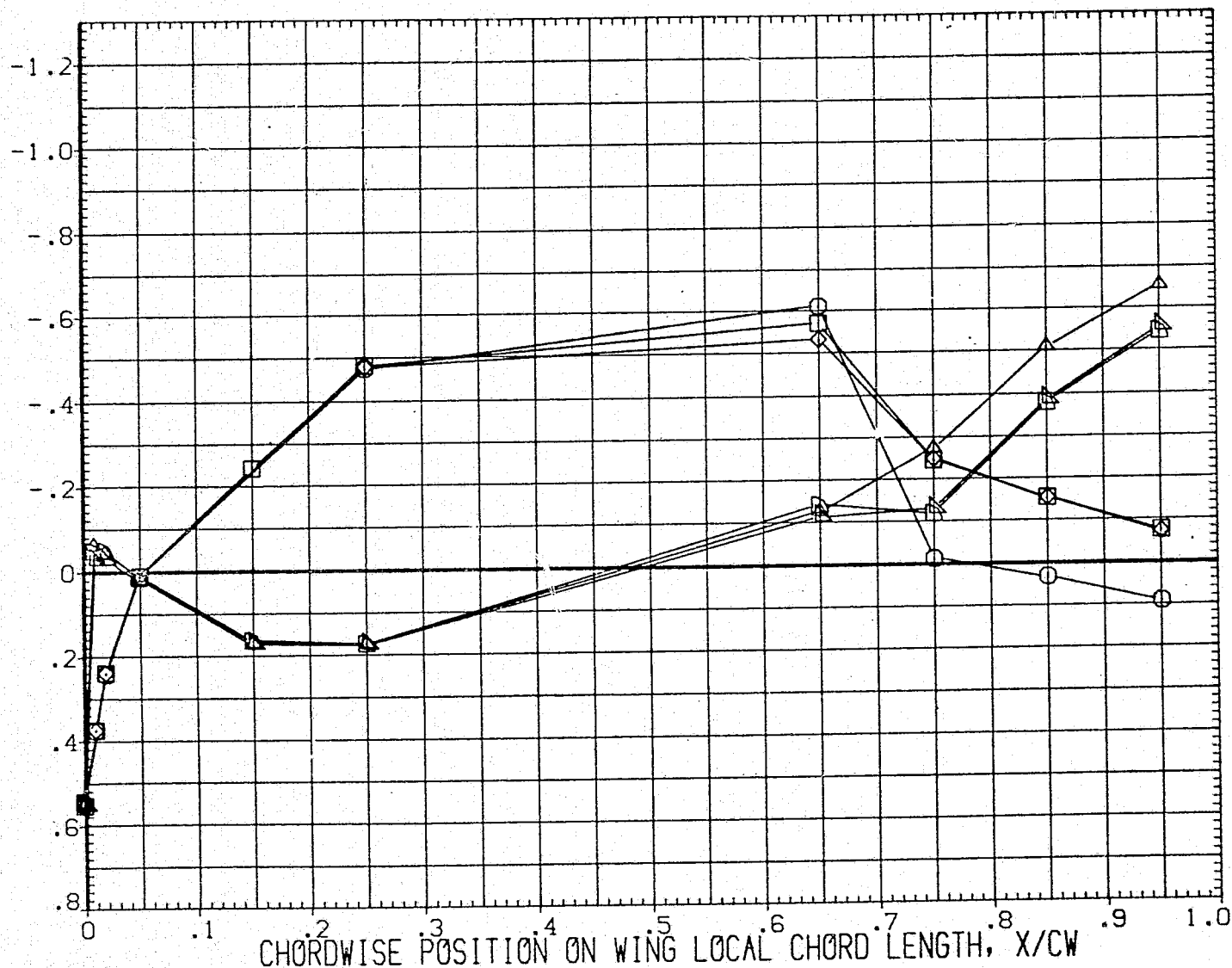


FIG. 83 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.1

ALPHA0= .000 BETA0 = .000 Y/RW = .780

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-18	RN/FT	ELV-08
(1ETU22)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.100	.000	2.250	.000
(1ETU09)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	1.100	8.000	2.250	4.000
(1ETU18)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.100	10.000	2.250	4.000
(1ETL22)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.100	.000	2.250	.000
(1ETL09)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	1.100	8.000	2.250	4.000
(1ETL18)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.100	10.000	2.250	4.000

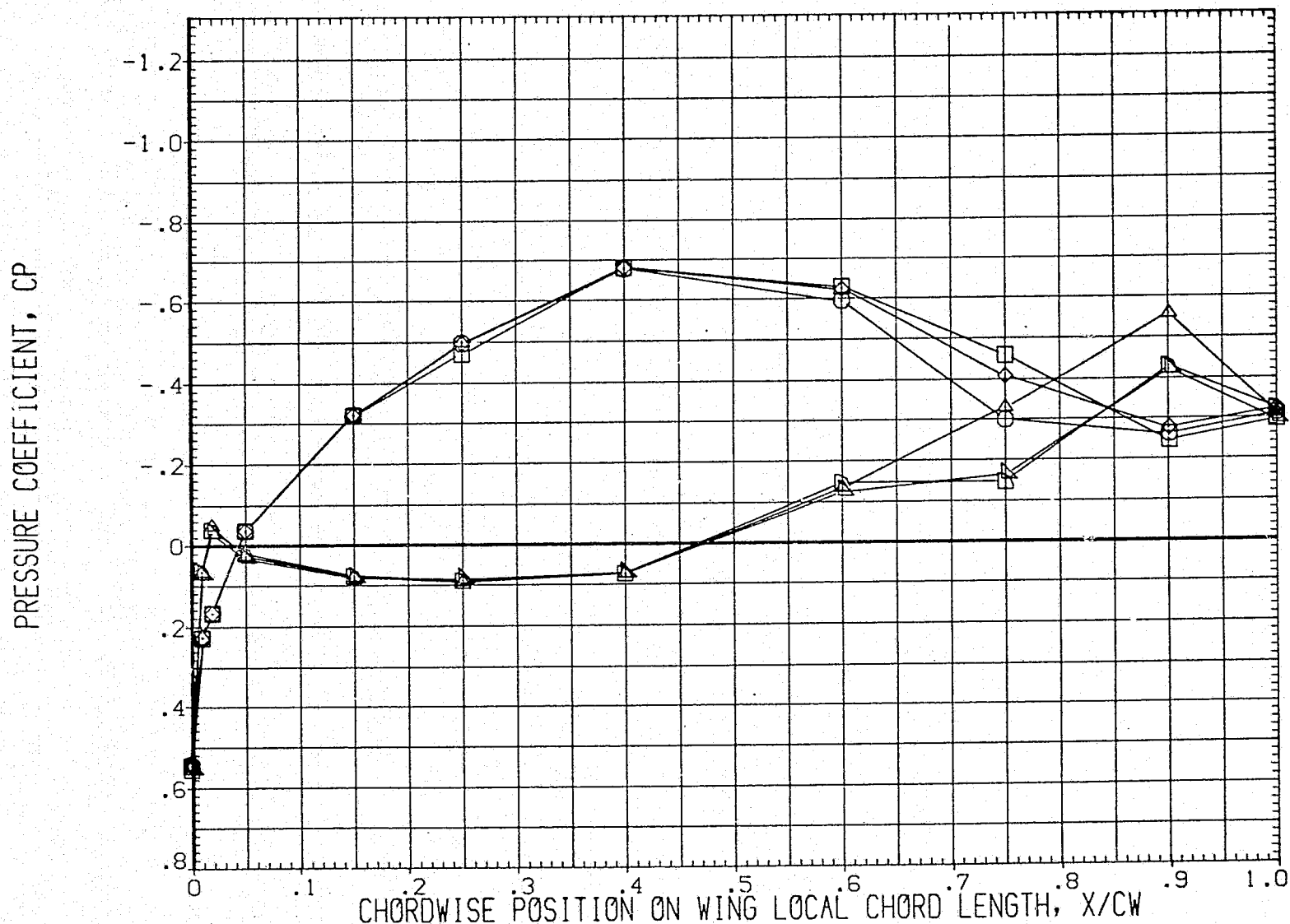


FIG. 83 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0. MACH = 1.1

ALPHA0= .000 BETA0 = .000 Y/BW = .887

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-IB	RN/FT	ELV-OB
(IETU22)	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING TOP	1.100	.000	2.250	.000
(IETU09)	ARC11-019 IAB1 LVAP(ELHL UNSEALED) LEFT WING TOP	1.100	8.000	2.250	4.000
(IETU18)	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING TOP	1.100	10.000	2.250	4.000
(IETL22)	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING BOT.	1.100	.000	2.250	.000
(IETL09)	ARC11-019 IAB1 LVAP(ELHL UNSEALED) LEFT WING BOT.	1.100	8.000	2.250	4.000
(IETL18)	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING BOT.	1.100	10.000	2.250	4.000

PRESSURE COEFFICIENT, CP

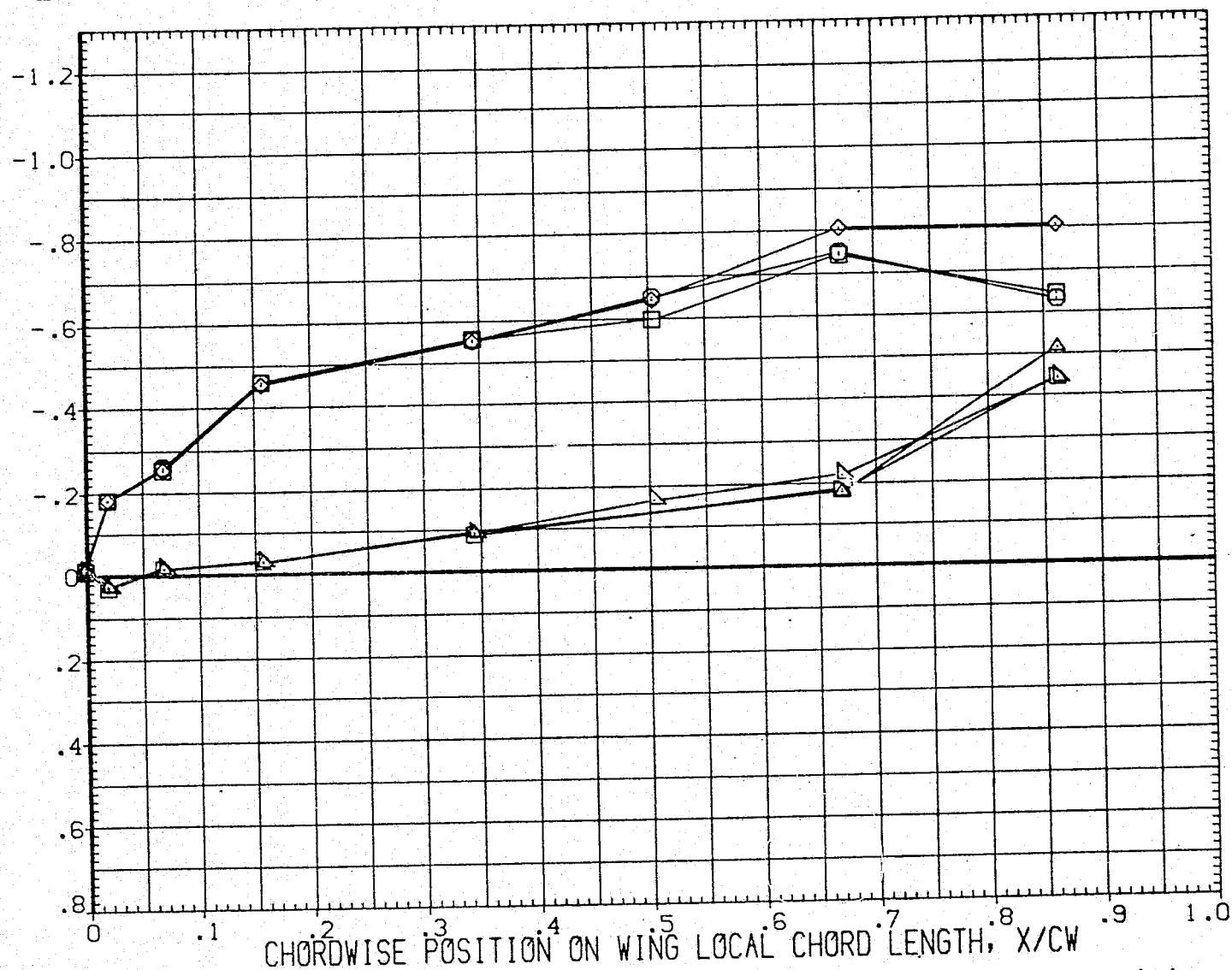


FIG. 83 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0. MACH = 1.1

ALPHA0 = .000 BETA0 = .000 Y/BW = .972

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(IETU22) DATA NOT AVAILABLE
 (IETU09) ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP
 (IETU18) ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP
 (IETL22) DATA NOT AVAILABLE
 (IETL09) DATA NOT AVAILABLE
 (IETL18) DATA NOT AVAILABLE

MACH	ELV-1B	RN/FT	ELV-0B
1.100	.000	2.250	.000
1.100	8.000	2.250	4.000
1.100	10.000	2.250	4.000
1.100	.000	2.250	.000
1.100	8.000	2.250	4.000
1.100	10.000	2.250	4.000

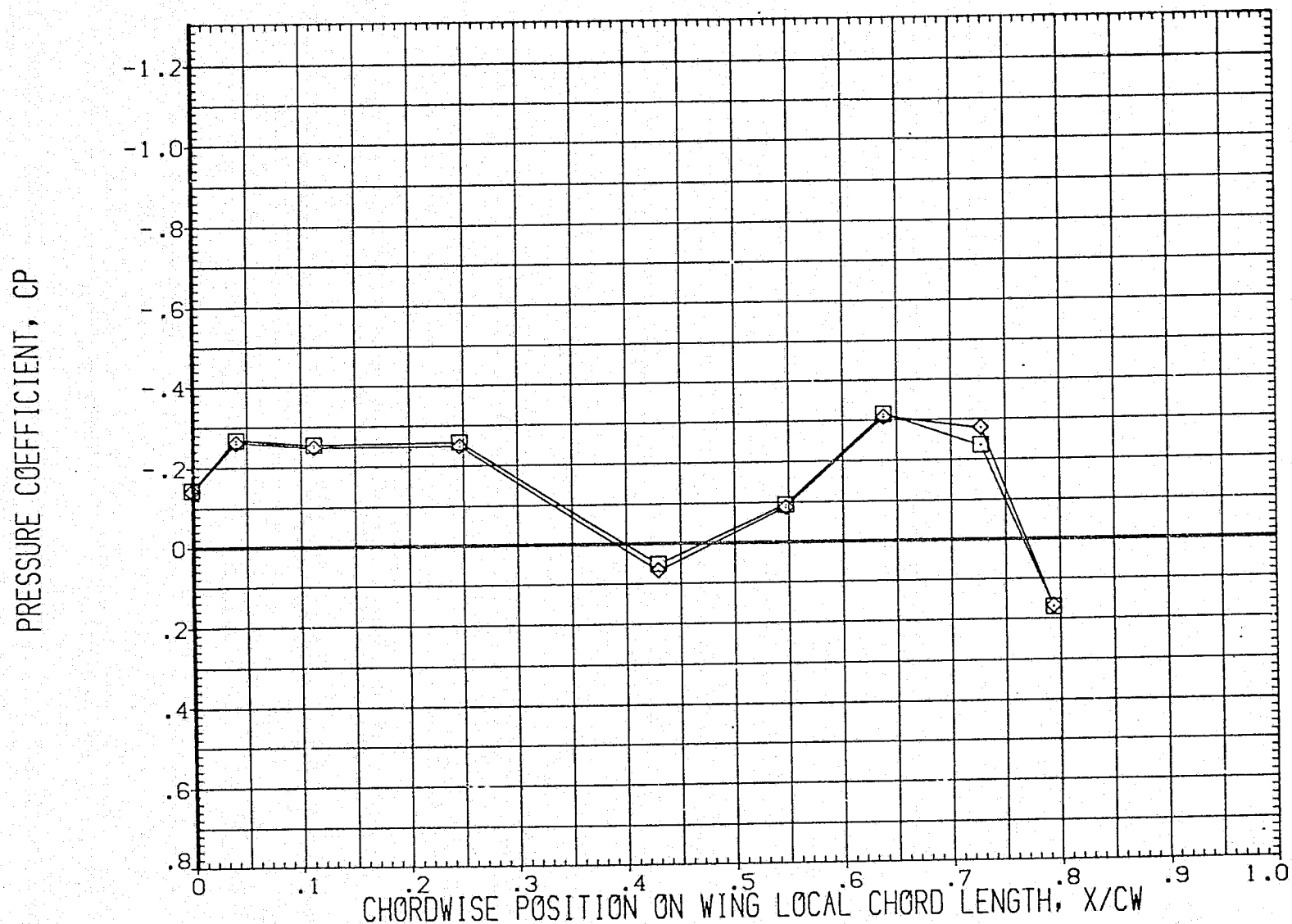


FIG. 83 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.1

ALPHA0= 4.000 BETA0 = .000 Y/BW = .235

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(IETU22)	DATA NOT AVAILABLE	1.100	.000	2.250	.000
(IETU09)	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP	1.100	8.000	2.250	4.000
(IETU18)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.100	10.000	2.250	4.000
(IETL22)	DATA NOT AVAILABLE	1.100	.000	2.250	.000
(IETL09)	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.	1.100	8.000	2.250	4.000
(IETL18)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.100	10.000	2.250	4.000

PRESSURE COEFFICIENT, CP

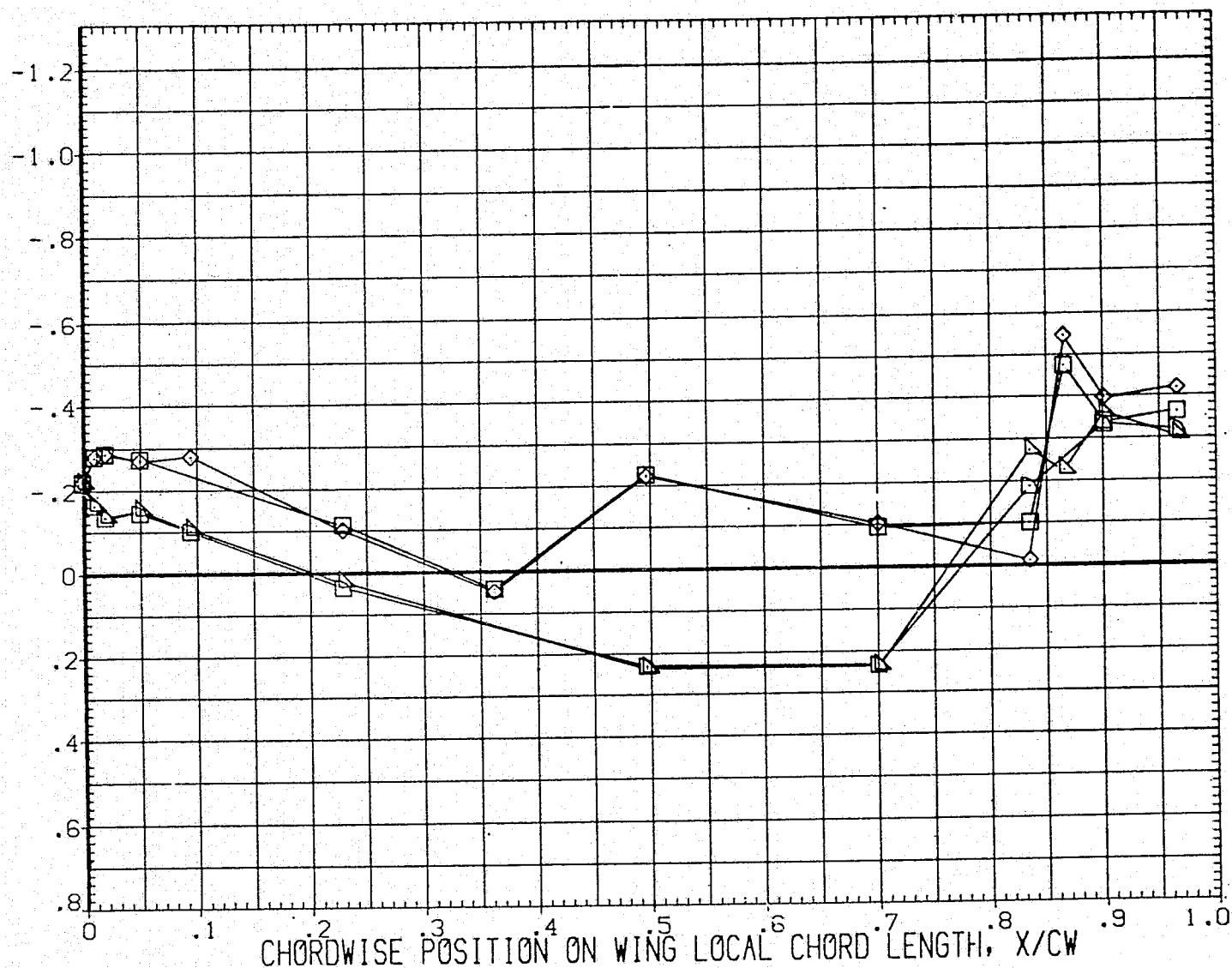


FIG. 83 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.1

ALPHA0= 4.000 BETA0 = .000 Y/BW = .299

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-18	RN/FT	ELV-08
(IETU22)	DATA NOT AVAILABLE	1.100	.000	2.250	.000
(IETU09)	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP	1.100	8.000	2.250	4.000
(IETU18)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.100	10.000	2.250	4.000
(IETL22)	DATA NOT AVAILABLE	1.100	.000	2.250	.000
(IETL09)	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.	1.100	8.000	2.250	4.000
(IETL18)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.100	10.000	2.250	4.000

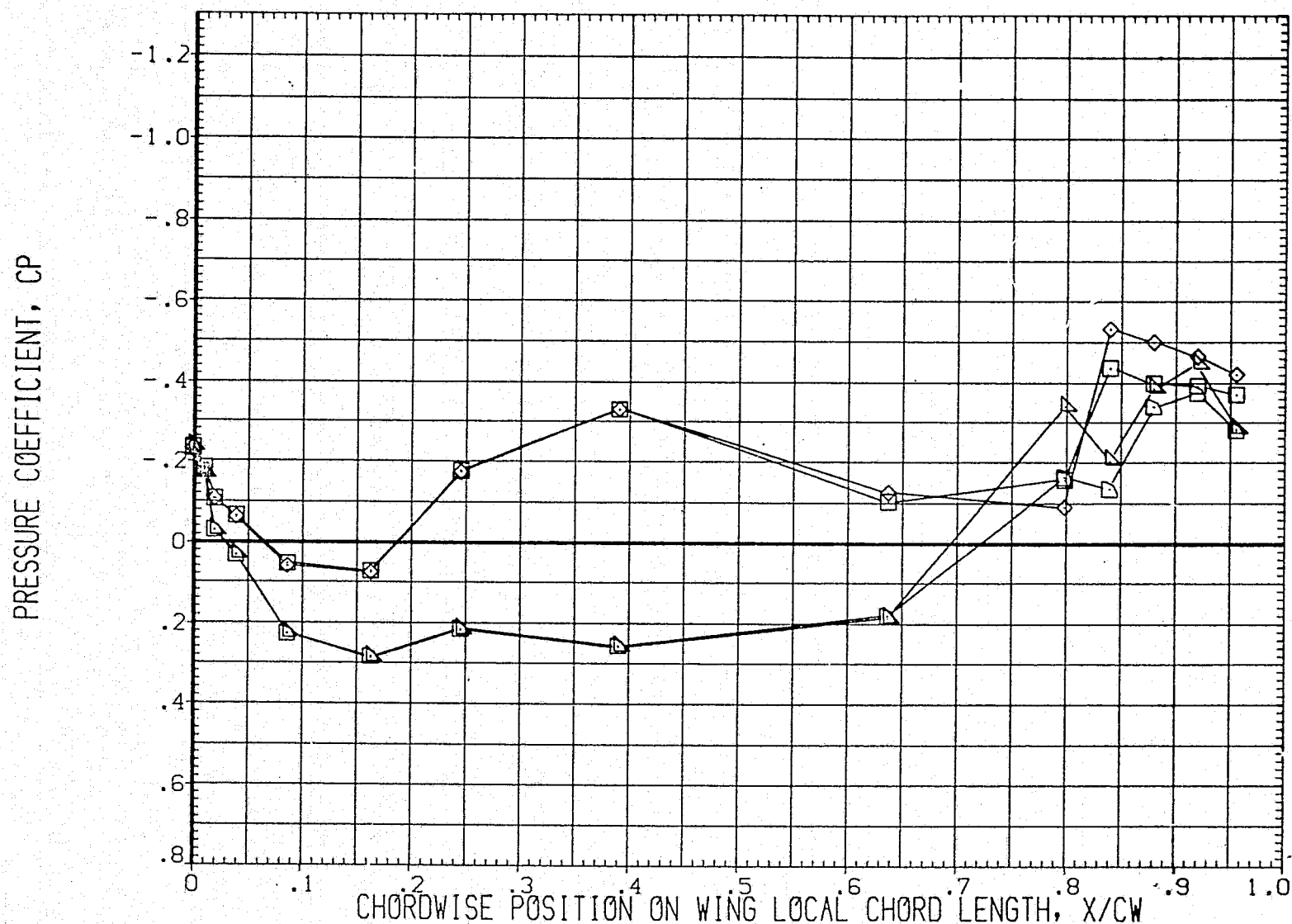


FIG. 83 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.1
 ALPHA0= 4.000 BETA0 = .000 Y/BW = .364 PAGE 1397

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(1ETU22)	DATA NOT AVAILABLE	1.100	.000	2.250	.000
(1ETU09)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	1.100	8.000	2.250	4.000
(1ETU18)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.100	10.000	2.250	4.000
(1ETL22)	DATA NOT AVAILABLE	1.100	.000	2.250	.000
(1ETL09)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	1.100	8.000	2.250	4.000
(1ETL18)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.100	10.000	2.250	4.000

PRESSURE COEFFICIENT, CP

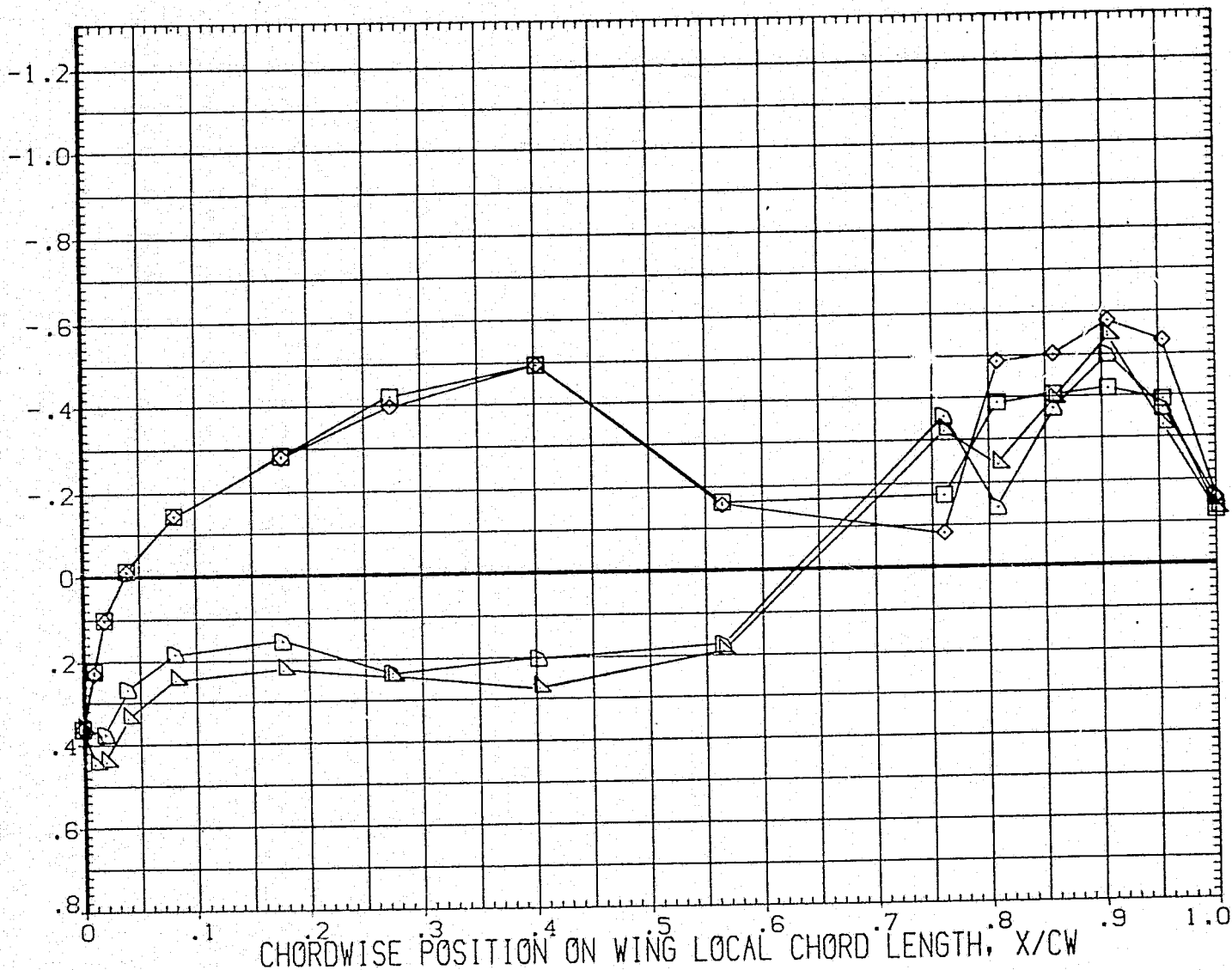


FIG. 83 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.1

ALPHA0= 4.000 BETA0 = .000 Y/BW = .427

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(1ETU22)	DATA NOT AVAILABLE	1.100	.000	2.250	.000
(1ETU09)	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING TOP	1.100	8.000	2.250	4.000
(1ETU18)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.100	10.000	2.250	4.000
(1ETL22)	DATA NOT AVAILABLE	1.100	.000	2.250	.000
(1ETL09)	ARC11-019 1A81 LVAP(ELHL UNSEALD) LEFT WING BOT.	1.100	8.000	2.250	4.000
(1ETL18)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.100	10.000	2.250	4.000

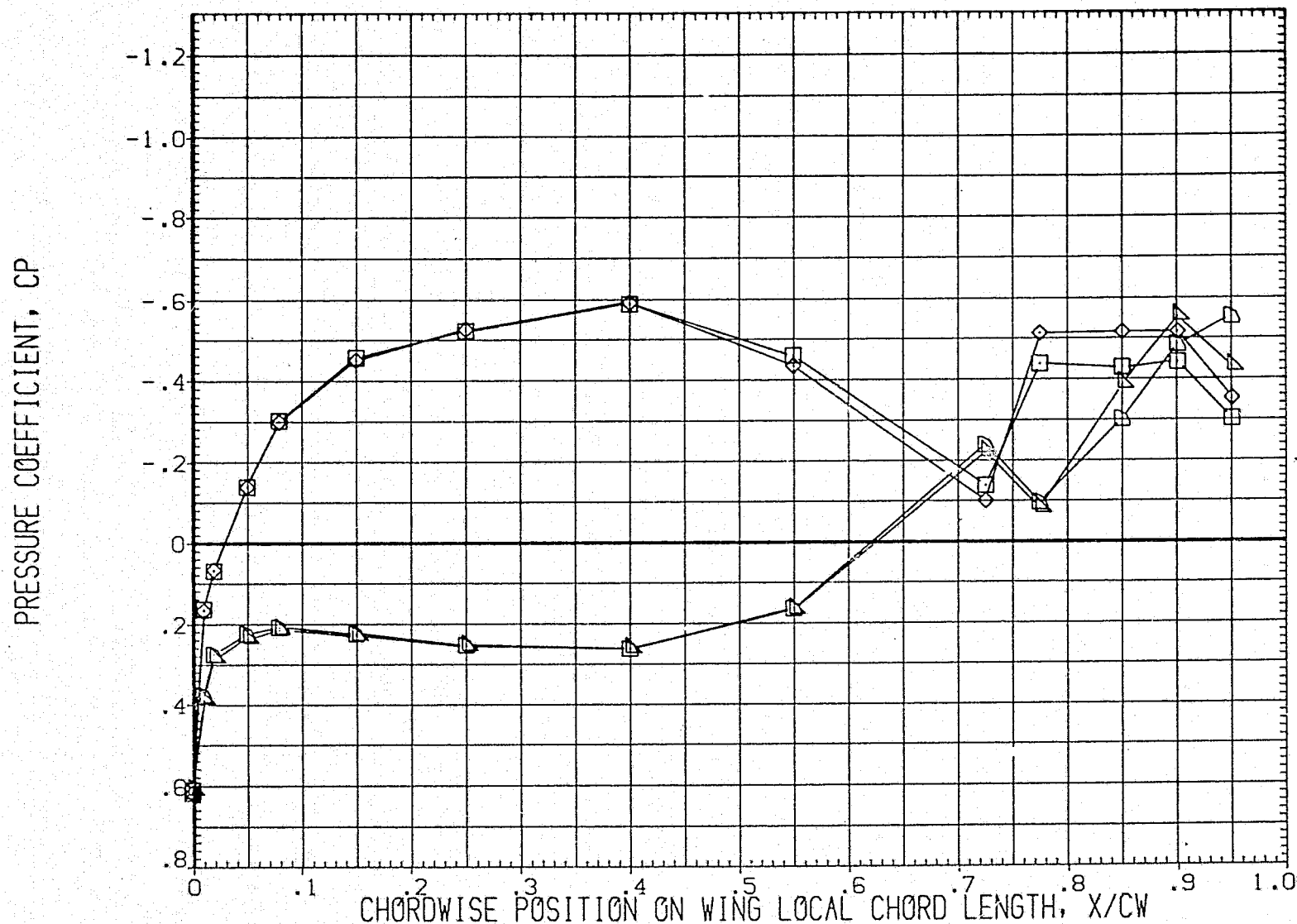


FIG. 83 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPOBRK= 0, MACH = 1.1

ALPHA0= 4.000 BETA0 = .000 Y/BW = .534

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-IB	RN/FT	ELV-OB
(IETU22)	DATA NOT AVAILABLE	1.100	.000	2.250	.000
(IETU09)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	1.100	8.000	2.250	4.000
(IETU18)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.100	10.000	2.250	4.000
(IETL22)	DATA NOT AVAILABLE	1.100	.000	2.250	.000
(IETL09)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	1.100	8.000	2.250	4.000
(IETL18)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.100	10.000	2.250	4.000

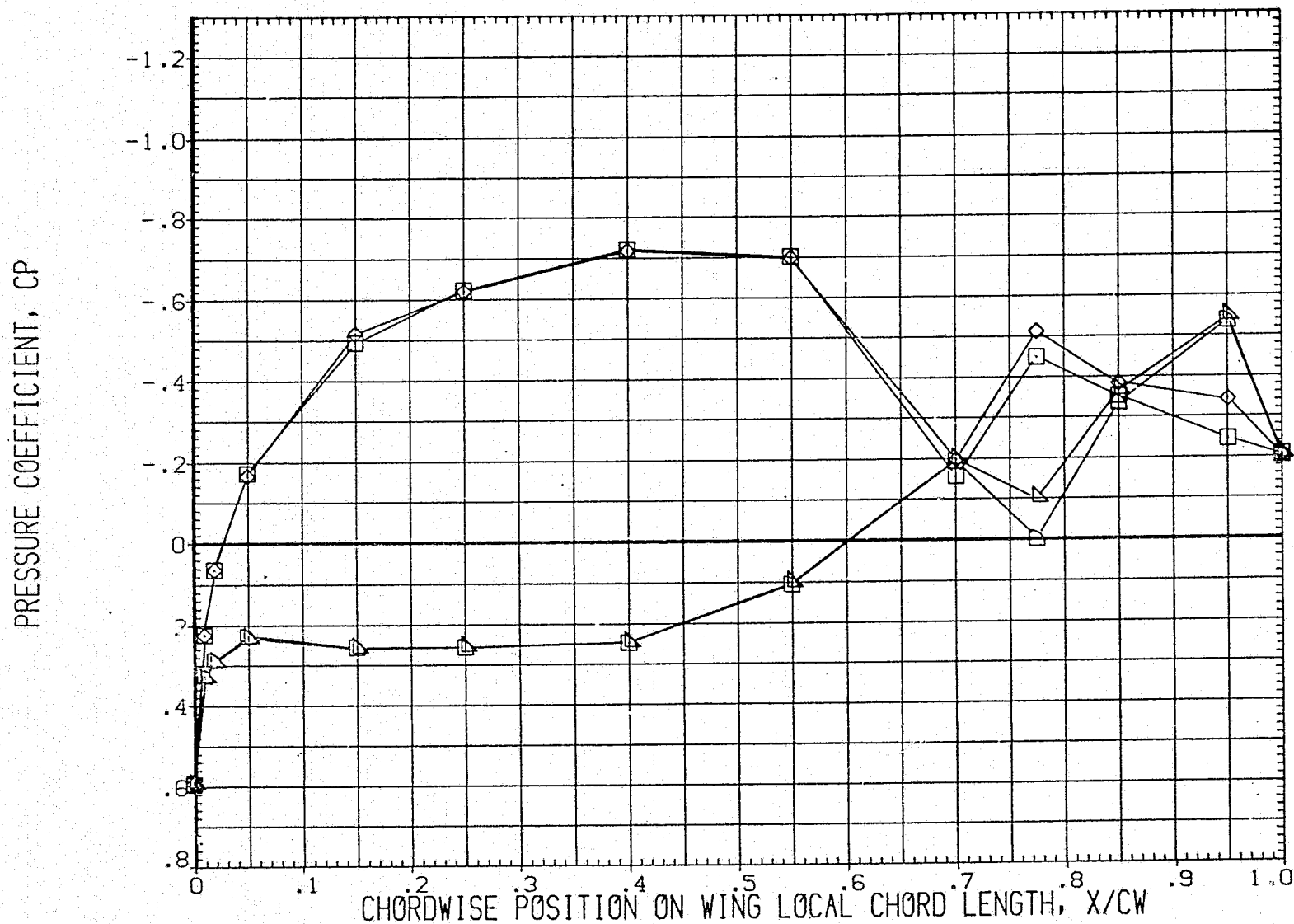


FIG. 83 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.1

ALPHA0= 4.000 BETA0 = .000 Y/BW = .673

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-IB	RN/FT	ELV-OB
(1ETU22)	DATA NOT AVAILABLE	1.100	.000	2.250	.000
(1ETU09)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	1.100	8.000	2.250	4.000
(1ETU18)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.100	10.000	2.250	4.000
(1ETL22)	DATA NOT AVAILABLE	1.100	.000	2.250	.000
(1ETL09)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	1.100	8.000	2.250	4.000
(1ETL18)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.100	10.000	2.250	4.000

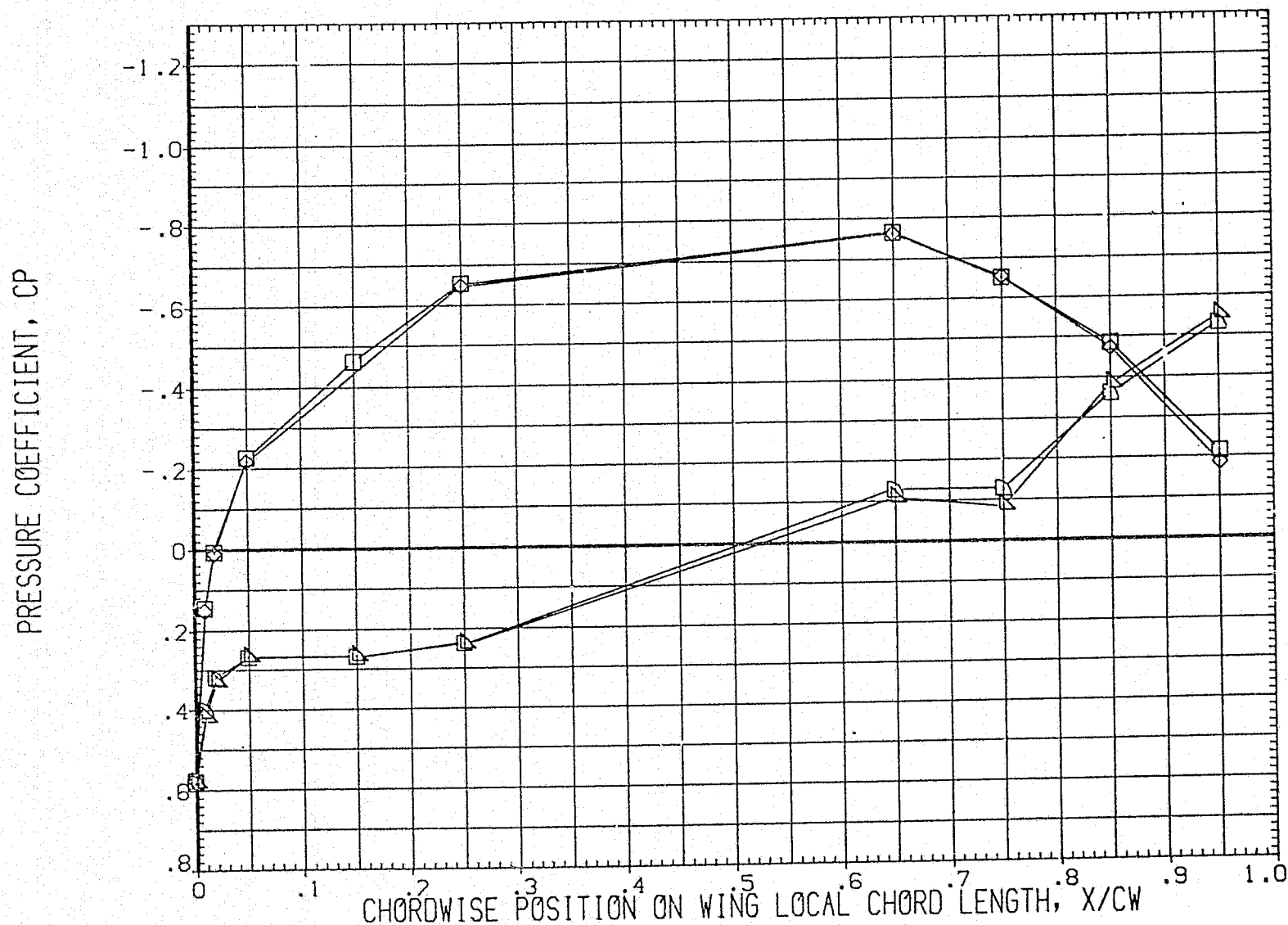


FIG. 83 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0. MACH = 1.1

ALPHA0= 4.000 BETA0 = .000 Y/BW = .780

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(IETU22)	DATA NOT AVAILABLE	1.100	.000	2.250	.000
(IETU09)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	1.100	8.000	2.250	4.000
(IETU18)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.100	10.000	2.250	4.000
(IETL22)	DATA NOT AVAILABLE	1.100	.000	2.250	.000
(IETL09)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	1.100	8.000	2.250	4.000
(IETL18)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.100	10.000	2.250	4.000



FIG. 83 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0. MACH = 1.1

ALPHA0= 4.000 BETA0 = .000 Y/BW = .887

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(IETU22)	DATA NOT AVAILABLE	1.100	.000	2.250	.000
(IETU09)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING TOP	1.100	8.000	2.250	4.000
(IETU18)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.100	10.000	2.250	4.000
(IETL22)	DATA NOT AVAILABLE	1.100	.000	2.250	.000
(IETL09)	ARC11-019 1A81 LVAP(ELHL UNSEALED) LEFT WING BOT.	1.100	8.000	2.250	4.000
(IETL18)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.100	10.000	2.250	4.000

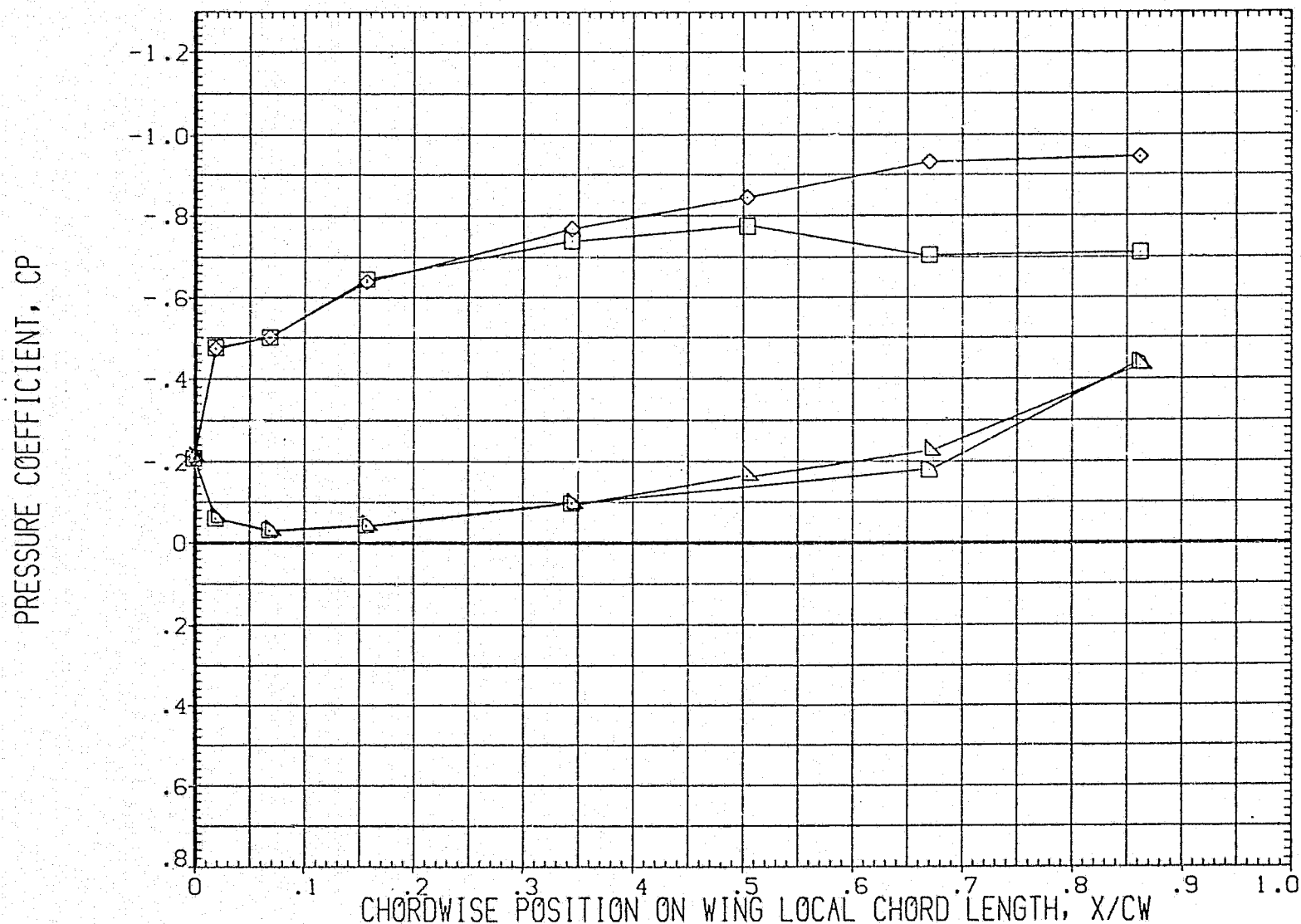


FIG. 83 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.1

ALPHA0= 4.000 BETA0 = .000 Y/BW = .972

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DATA SET SYMBOL CONFIGURATION DESCRIPTION

(IETU21) DATA NOT AVAILABLE
 (IETU11) ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING TOP
 (IETU19) ARC11-013 IAB1 LVAP(ELHL SEALED) LEFT WING TOP
 (IETL21) DATA NOT AVAILABLE
 (IETL11) DATA NOT AVAILABLE
 (IETL19) DATA NOT AVAILABLE

MACH	ELV-1B	RN/FT	ELV-3B
1.250	.000	2.250	.000
1.250	8.000	2.250	4.000
1.250	10.000	2.250	4.000
1.250	.000	2.250	.000
1.250	8.000	2.250	4.000
1.250	10.000	2.250	4.000

PRESSURE COEFFICIENT, CP

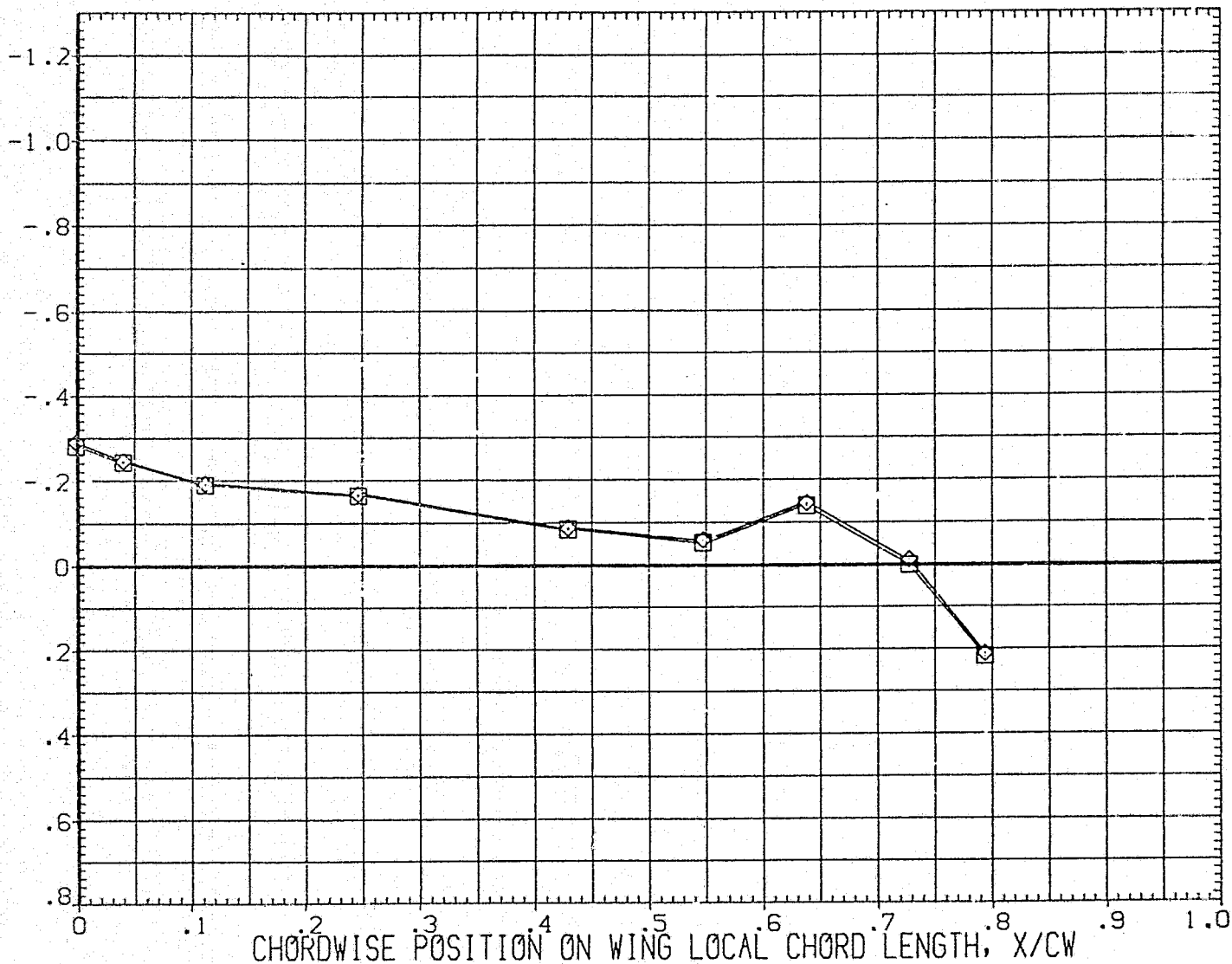


FIG. 84 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.25
 ALPHA0= -4.000 BETA0 = .000 Y/BW = .235 PAGE 1404

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-IB	RN/FT	ELV-OB
(1ETU21)	DATA NOT AVAILABLE	1.250	.000	2.250	.000
(1ETU11)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	8.000	2.250	4.000
(1ETU19)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	10.000	2.250	4.000
(1ETL21)	DATA NOT AVAILABLE	1.250	.000	2.250	.000
(1ETL11)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	8.000	2.250	4.000
(1ETL19)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	10.000	2.250	4.000

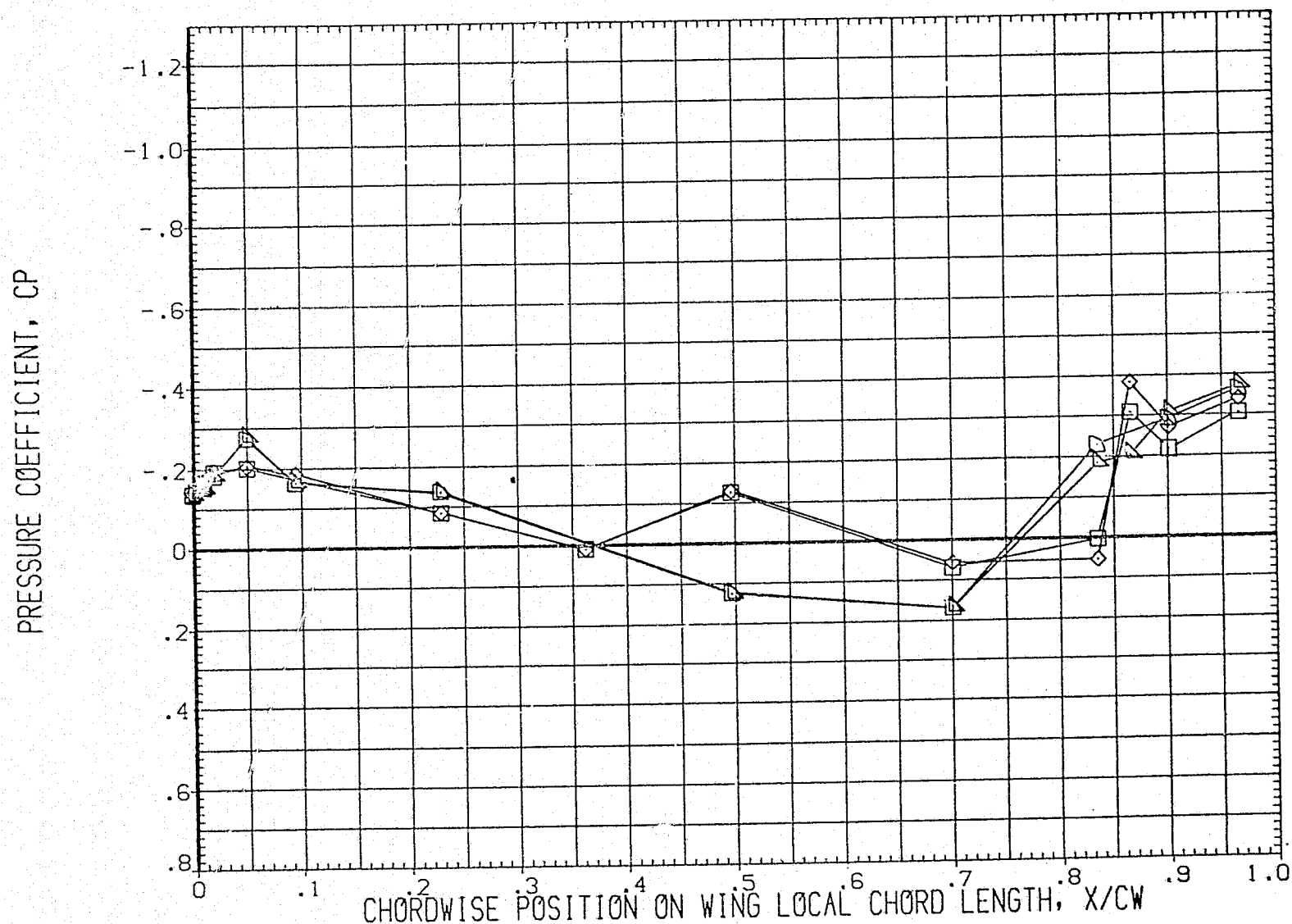


FIG. 84 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.25
 ALPHA0= -4.000 BETA0 = .000 Y/BW = .299

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-19	RN/FT	ELV-08
(IETU21)	DATA NOT AVAILABLE	1.250	.000	2.250	.000
(IETU11)	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING TOP	1.250	8.000	2.250	4.000
(IETU19)	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING TOP	1.250	10.000	2.250	4.000
(IETL21)	DATA NOT AVAILABLE	1.250	.000	2.250	.000
(IETL11)	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	8.000	2.250	4.000
(IETL19)	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	10.000	2.250	4.000

PRESSURE COEFFICIENT, CP

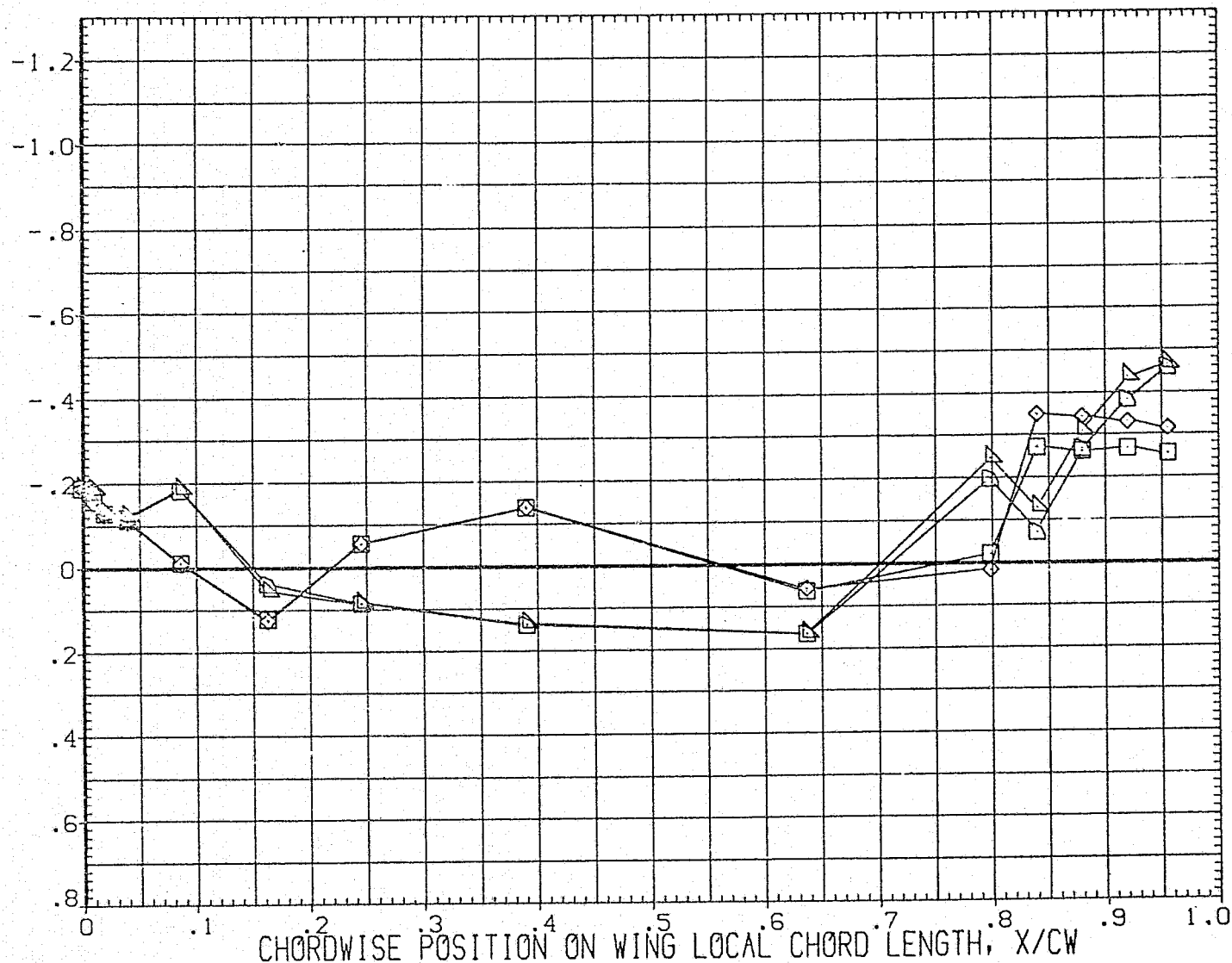


FIG. 84 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.25

ALPHA0= -4.000 BETA0 = .000 Y/BW = .364

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-18	RN/FT	ELV-08
(IETU21)	DATA NOT AVAILABLE	1.250	.000	2.250	.000
(IETU11)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	8.000	2.250	4.000
(IETU19)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	10.000	2.250	4.000
(IETL21)	DATA NOT AVAILABLE	1.250	.000	2.250	.000
(IETL11)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	8.000	2.250	4.000
(IETL19)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	10.000	2.250	4.000

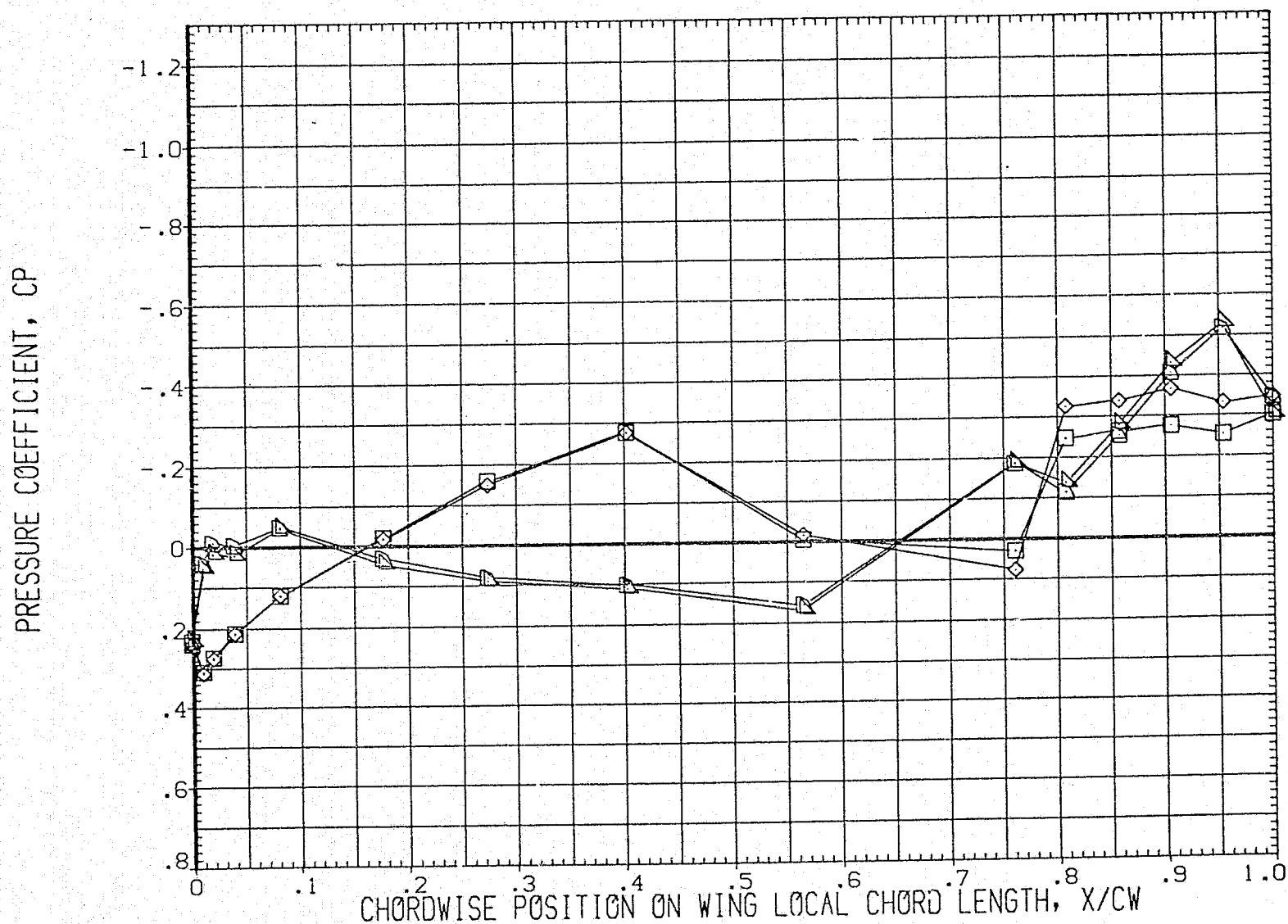


FIG. 84 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.25
 ALPHA0= -4.000 BETA0 = .000 Y/BW = .427

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(IETU21)	DATA NOT AVAILABLE	1.250	.000	2.250	.000
(IETU11)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	8.000	2.250	4.000
(IETU19)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	10.000	2.250	4.000
(IETL21)	DATA NOT AVAILABLE	1.250	.000	2.250	.000
(IETL11)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	8.000	2.250	4.000
(IETL19)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	10.000	2.250	4.000

PRESSURE COEFFICIENT, CP

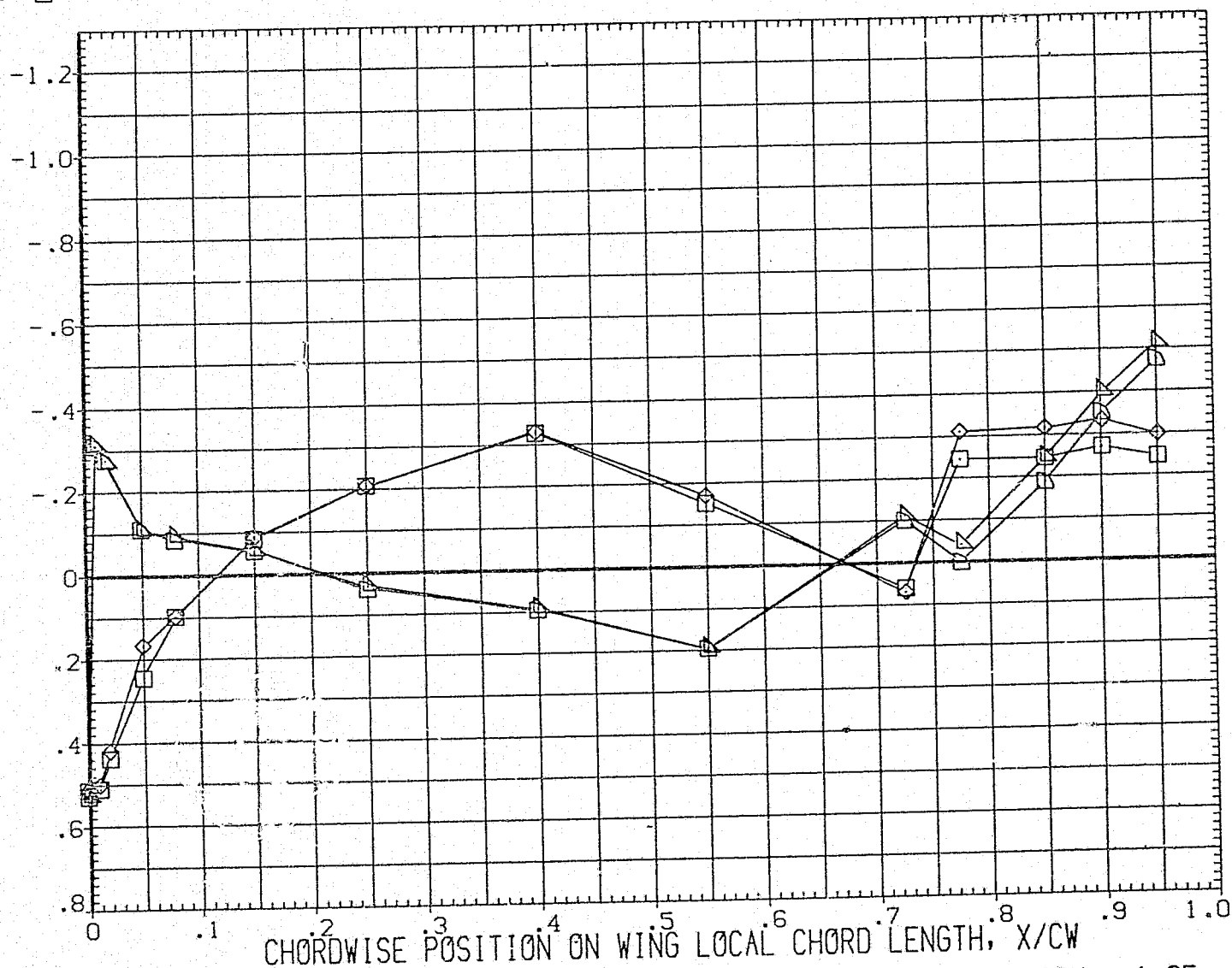


FIG. 84 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.25

ALPHA0 = -4.000 BETA0 = .000 Y/BW = .534

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-IB	RN/FT	ELV-OB
(IETU21)	DATA NOT AVAILABLE	1.250	.000	2.250	.000
(IETU11)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	8.000	2.250	4.000
(IETU19)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	10.000	2.250	4.000
(IETL21)	DATA NOT AVAILABLE	1.250	.000	2.250	.000
(IETL11)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	8.000	2.250	4.000
(IETL19)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	10.000	2.250	4.000

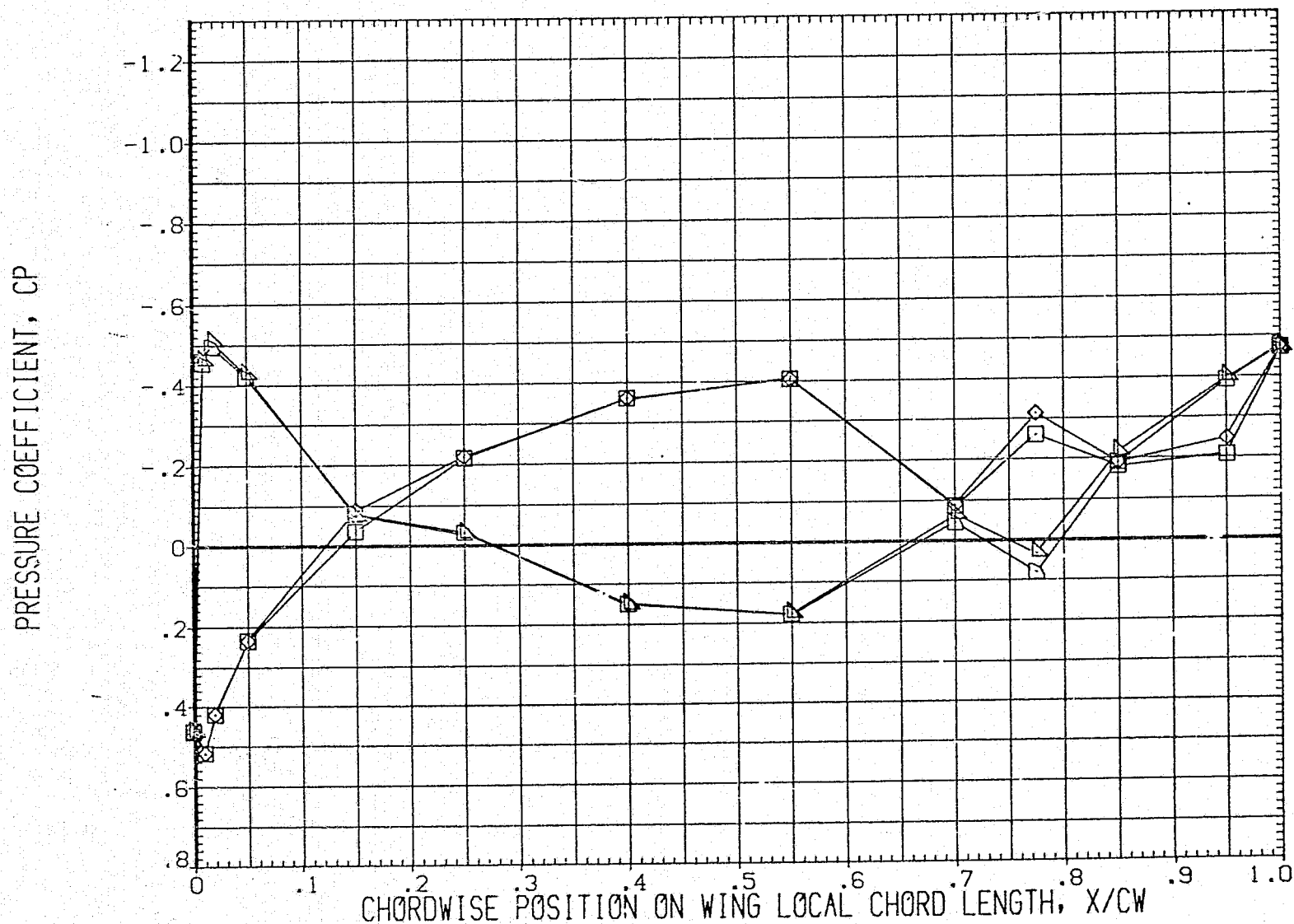


FIG. 84 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.25

ALPHA0 = -4.000 BETA0 = .000 Y/BW = .673

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-IB	RN/FT	ELV-OB
(IETU21)	DATA NOT AVAILABLE	1.250	.000	2.250	.000
(IETU11)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	8.000	2.250	4.000
(IETU19)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	10.000	2.250	4.000
(IETL21)	DATA NOT AVAILABLE	1.250	.000	2.250	.000
(IETL11)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	8.000	2.250	4.000
(IETL19)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	10.000	2.250	4.000

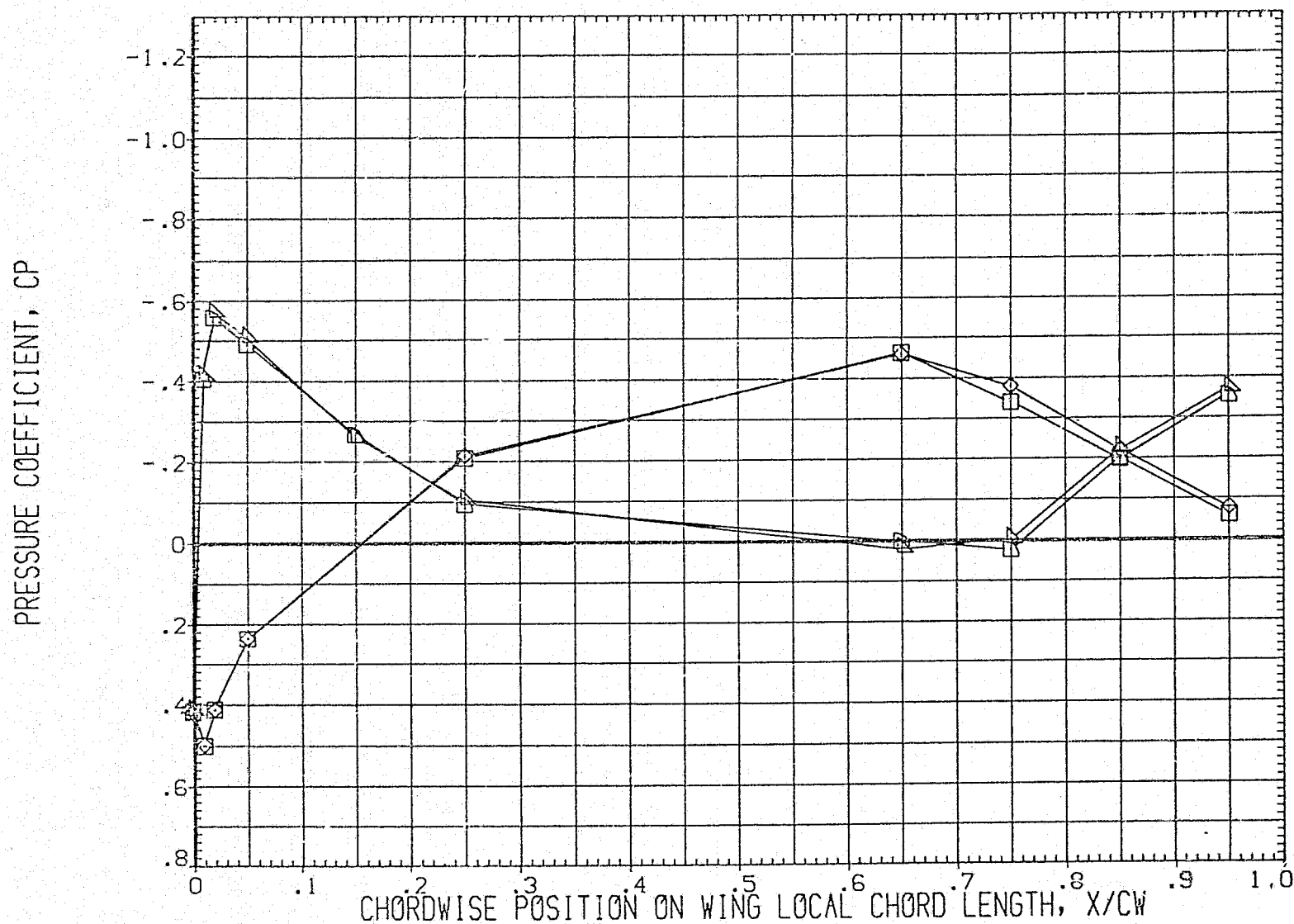


FIG. 84 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.25
 ALPHA0= -4.000 BETA0 = .000 Y/BW = .780

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(1ETU21)	DATA NOT AVAILABLE	1.250	.000	2.250	.000
(1ETU11)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	8.000	2.250	4.000
(1ETU19)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	10.000	2.250	4.000
(1ETL21)	DATA NOT AVAILABLE	1.250	.000	2.250	.000
(1ETL11)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	8.000	2.250	4.000
(1ETL19)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	10.000	2.250	4.000

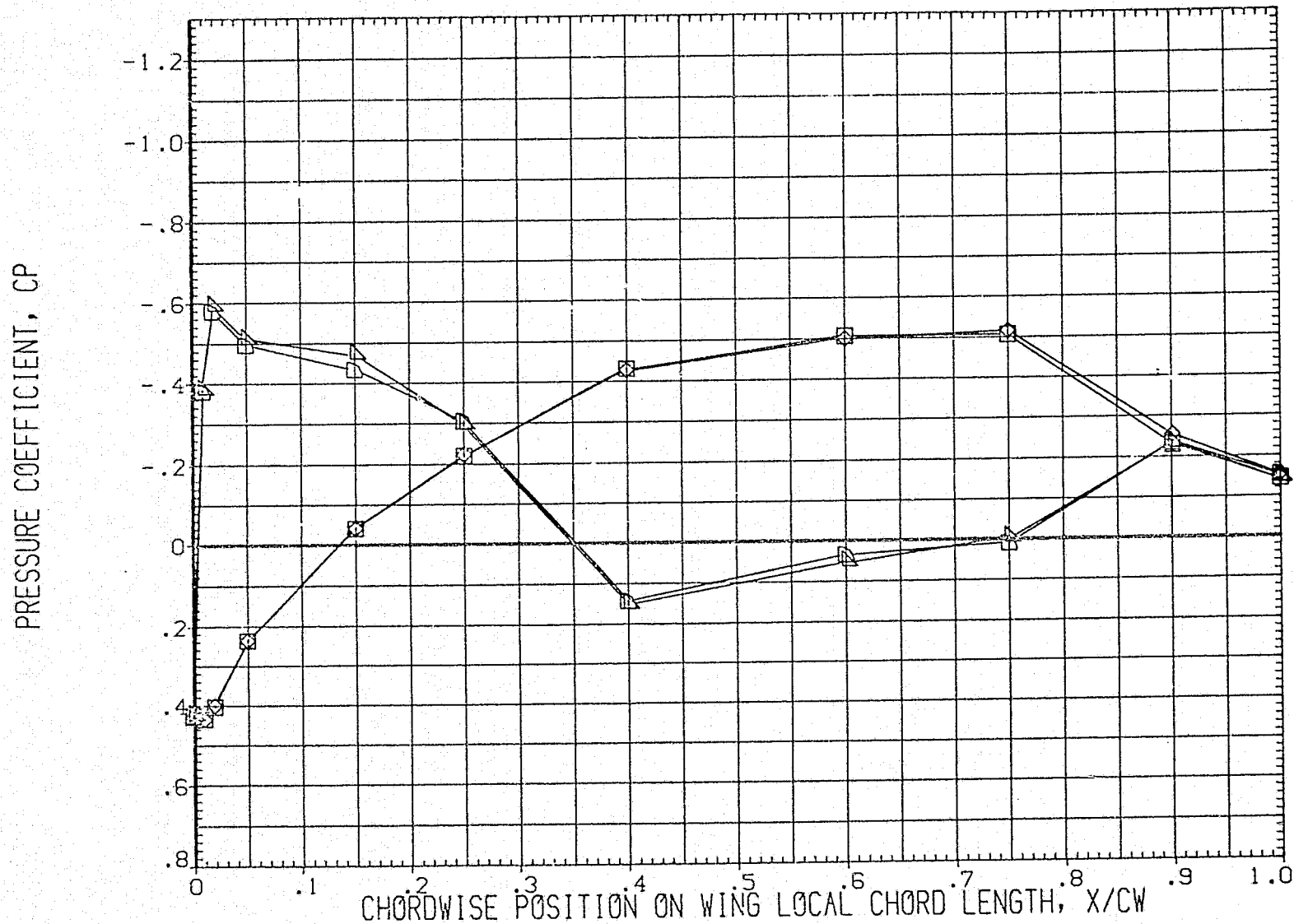


FIG. 84 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.25
 ALPHA0= -4.000 BETA0 = .000 Y/BW = .887

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(IETU21)	DATA NOT AVAILABLE	1.250	.000	2.250	.000
(IETU11)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	8.000	2.250	4.000
(IETU19)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	10.000	2.250	4.000
(IETL21)	DATA NOT AVAILABLE	1.250	.000	2.250	.000
(IETL11)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	8.000	2.250	4.000
(IETL19)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	10.000	2.250	4.000

PRESSURE COEFFICIENT, CP

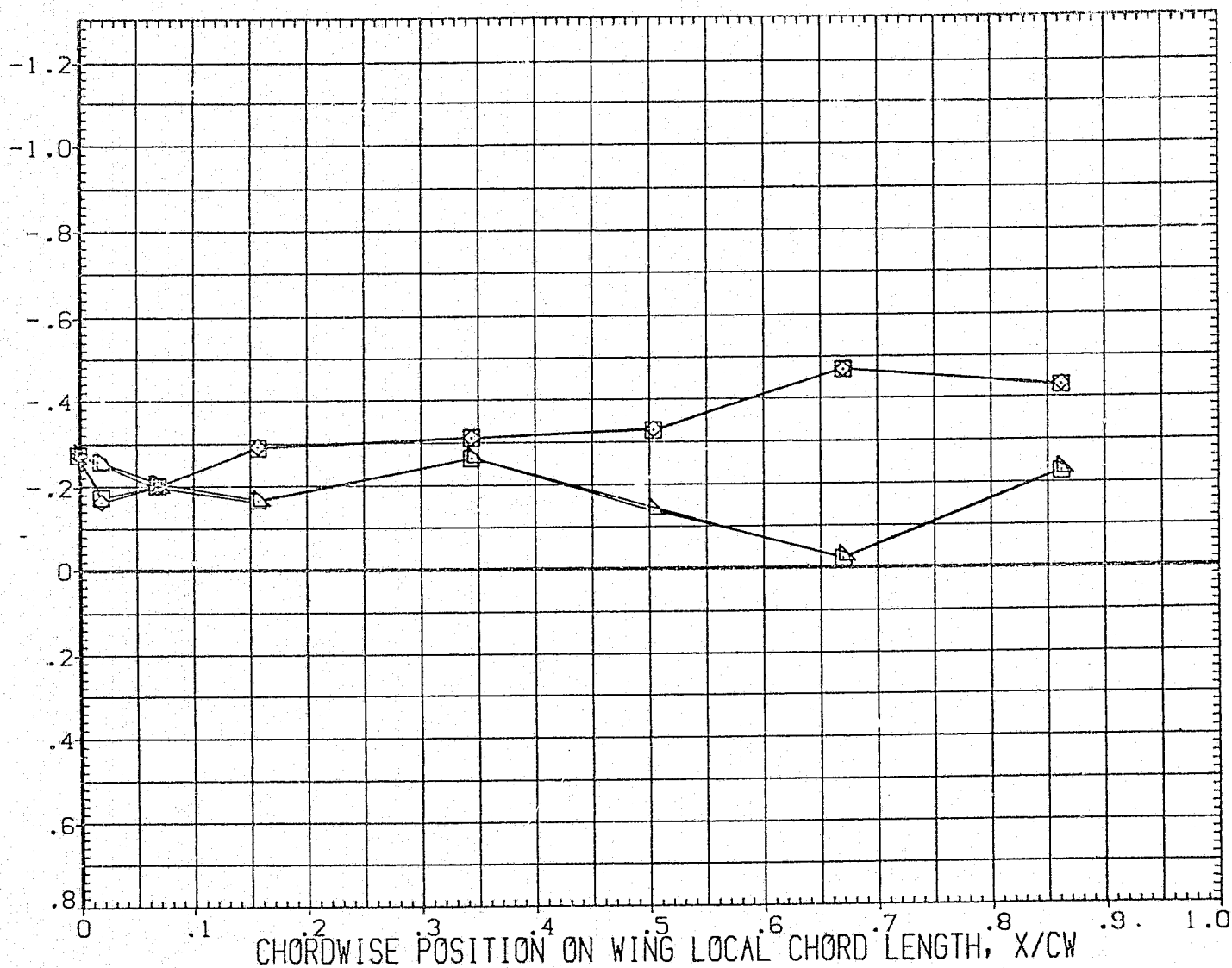


FIG. 84 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.25

ALPHA0= -4.000 BETA0 = .000 Y/BW = .972

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-IB	RN/FT	ELV-OB
(1ETU21)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	.000	2.250	.000
(1ETU11)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	8.000	2.250	4.000
(1ETU19)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	10.000	2.250	4.000
(1ETL21)	DATA NOT AVAILABLE	1.250	.000	2.250	.000
(1ETL11)	DATA NOT AVAILABLE	1.250	8.000	2.250	4.000
(1ETL19)	DATA NOT AVAILABLE	1.250	10.000	2.250	4.000

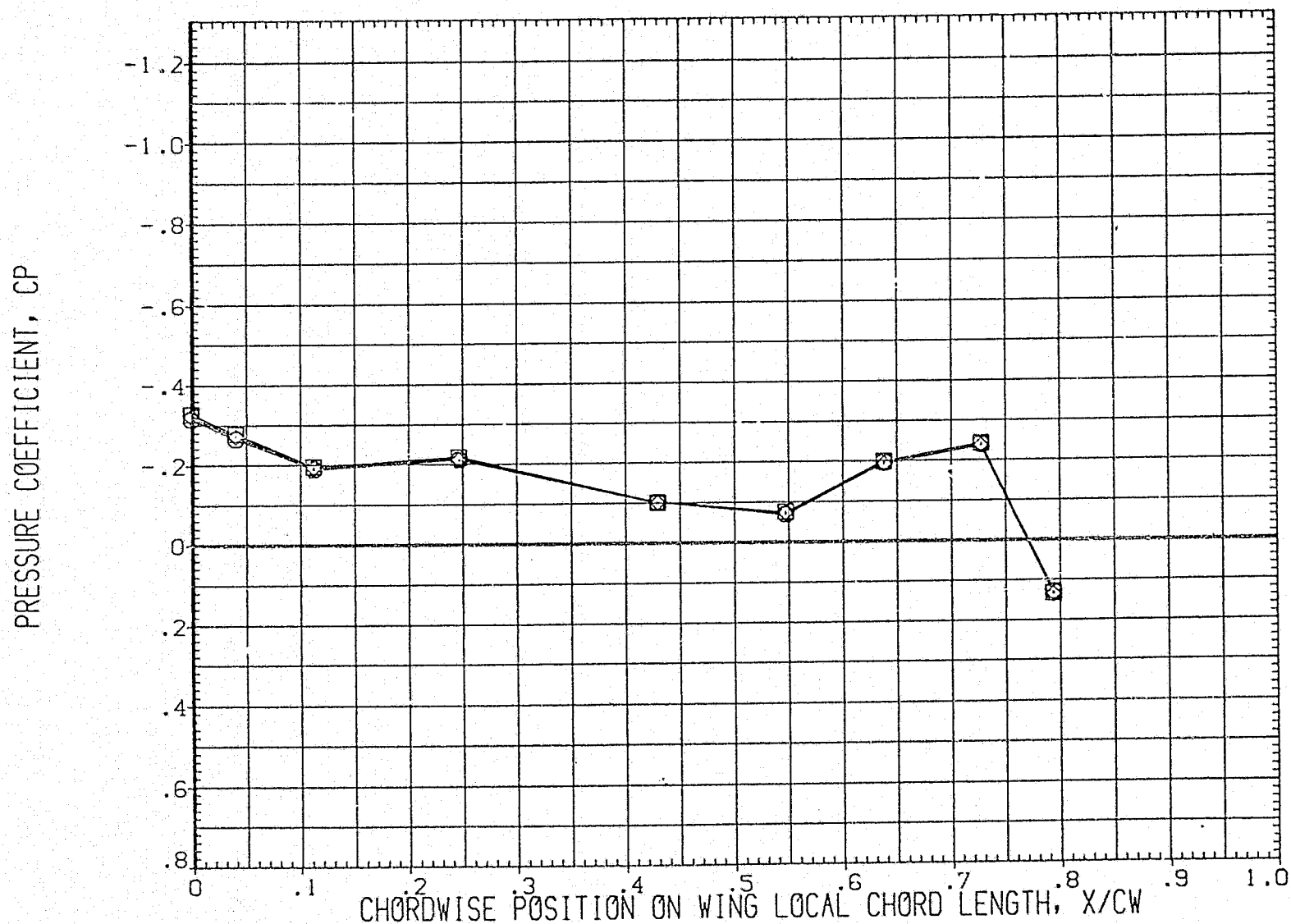


FIG. 84 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.25

ALPHA0= .000 BETA0 = .000 Y/BW = .235

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(1ETU21)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	.000	2.250	.000
(1ETU11)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	8.000	2.250	4.000
(1ETU19)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	10.000	2.250	4.000
(1ETL21)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	.000	2.250	.000
(1ETL11)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	8.000	2.250	4.000
(1ETL19)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	10.000	2.250	4.000

PRESSURE COEFFICIENT, CP

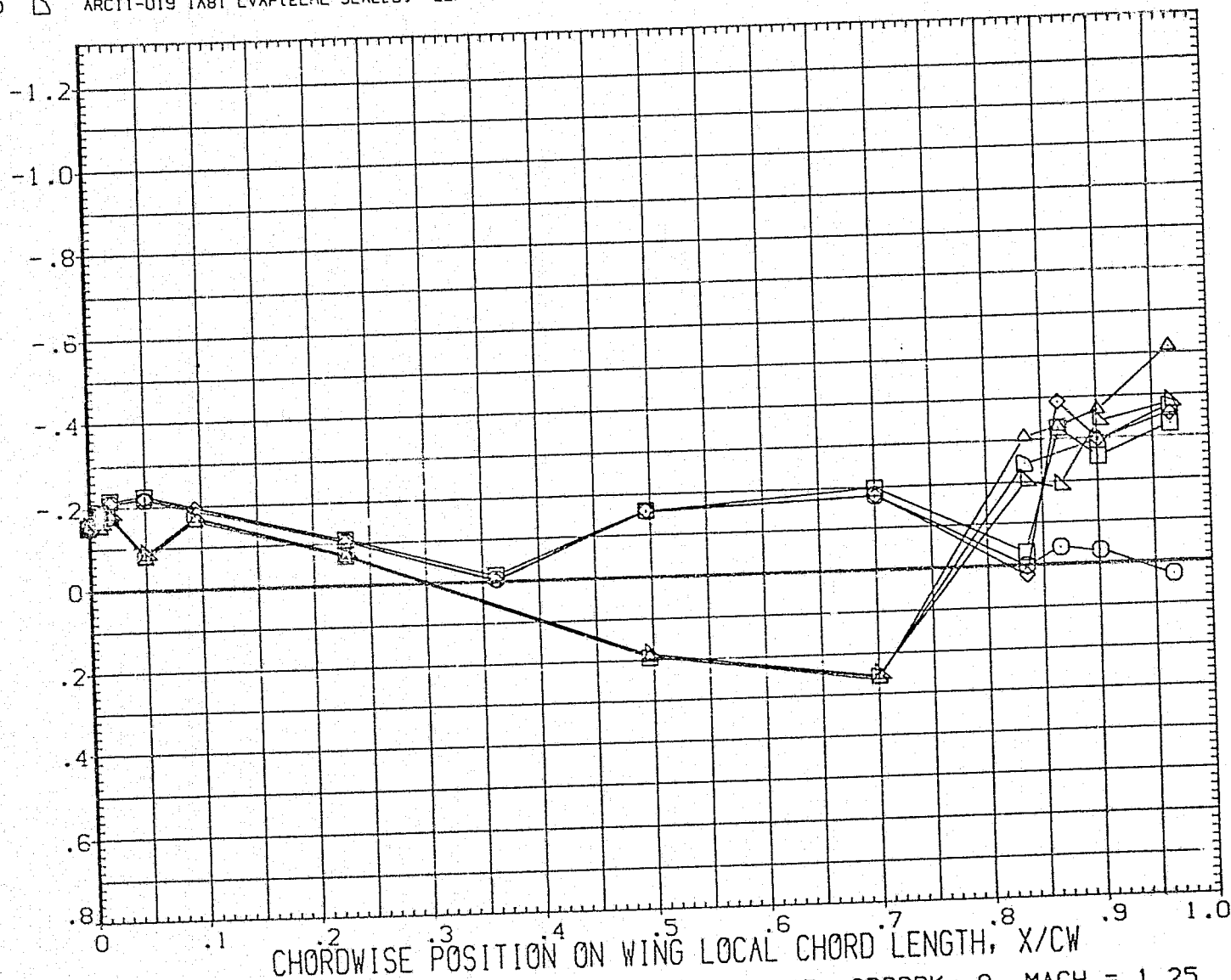


FIG. 84 WING CHORDWISE PRESS. DIST.. ELEVON EFFECT, SPDBRK= 0, MACH = 1.25
 ALPHA0= .000 BETA0 = .000 Y/BW = .299 PAGE 1414

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-IB	RN/FT	ELV-OB
(IETU21)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	.000	2.250	.000
(IETU11)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	8.000	2.250	4.000
(IETU19)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	10.000	2.250	4.000
(IETL21)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	.000	2.250	.000
(IETL11)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	8.000	2.250	4.000
(IETL19)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	10.000	2.250	4.000

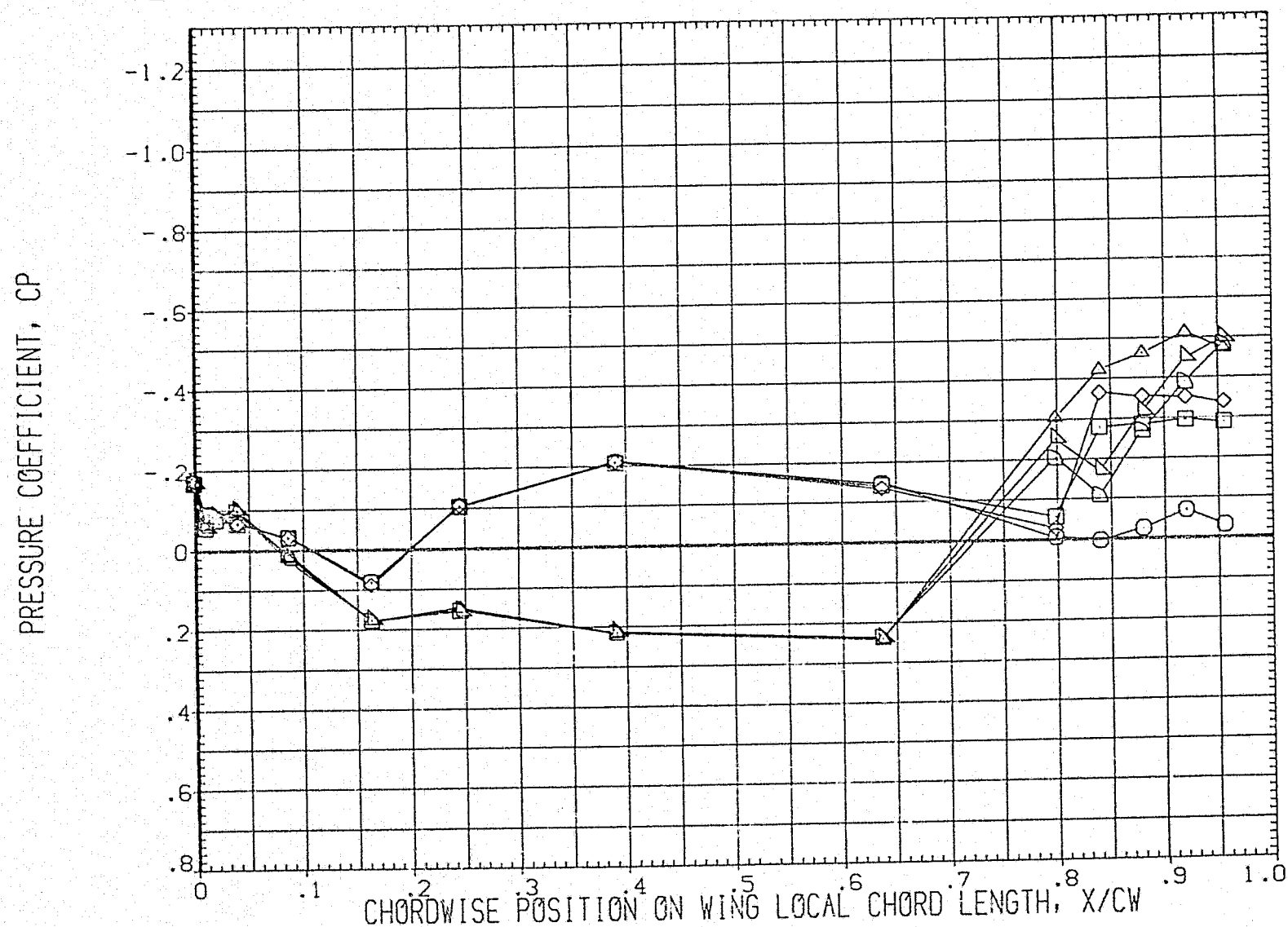


FIG. 84 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.25

ALPHA0= .000 BETA0 = .000 Y/BW = .364

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-18	RN/FT	ELV-08
(IETU21)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	.000	2.250	.000
(IETU11)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	8.000	2.250	4.000
(IETU19)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	10.000	2.250	4.000
(IETL21)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	.000	2.250	.000
(IETL11)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	8.000	2.250	4.000
(IETL19)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	10.000	2.250	4.000

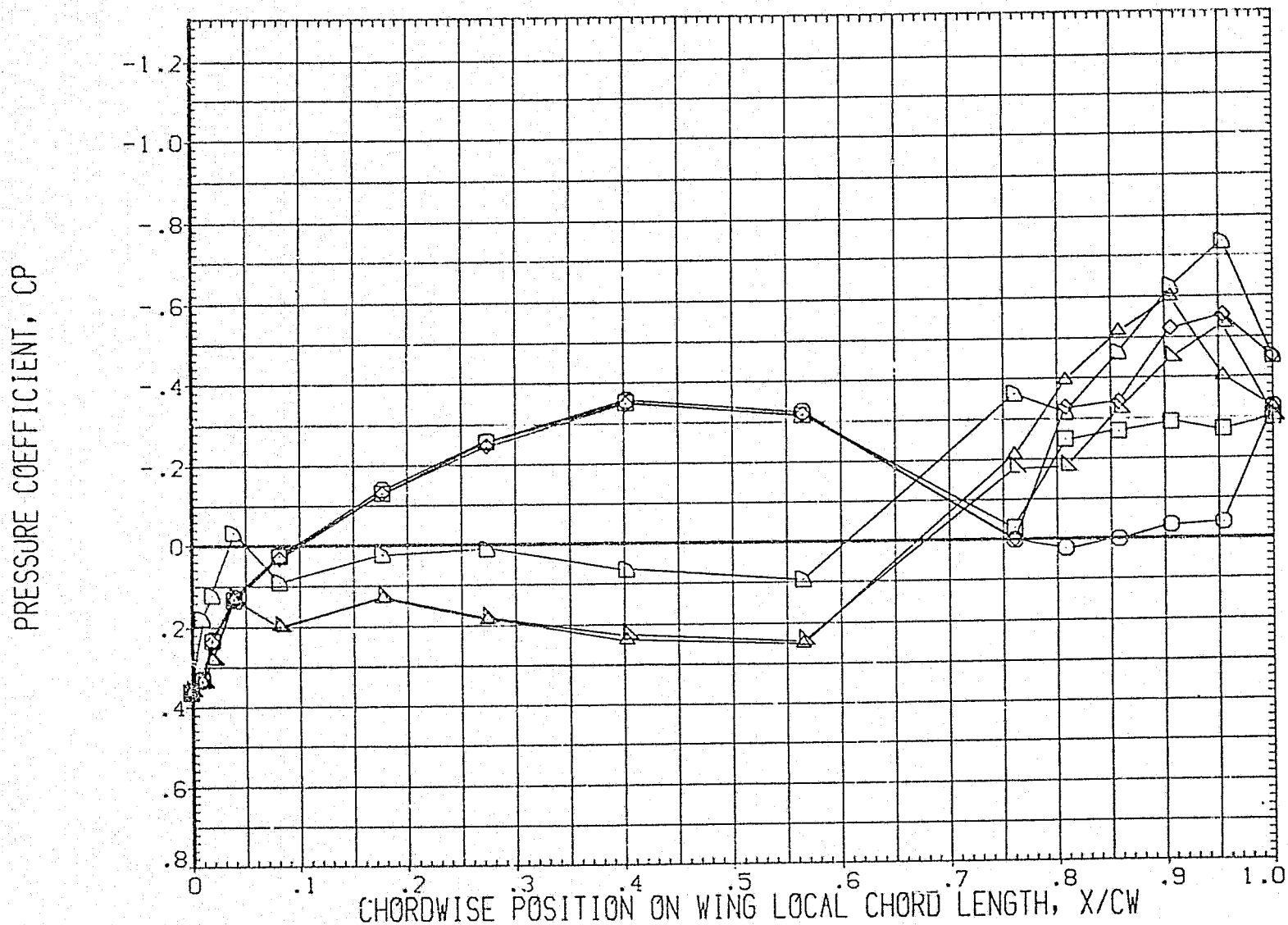


FIG. 84 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.25

ALPHA0= .000 BETA0 = .000 Y/BW = .427

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-IB	RN/FT	ELV-CB
(IETU21)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	.000	2.250	.000
(IETU11)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	8.000	2.250	4.000
(IETU19)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	10.000	2.250	4.000
(IETL21)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	.000	2.250	.000
(IETL11)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	8.000	2.250	4.000
(IETL19)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	10.000	2.250	4.000

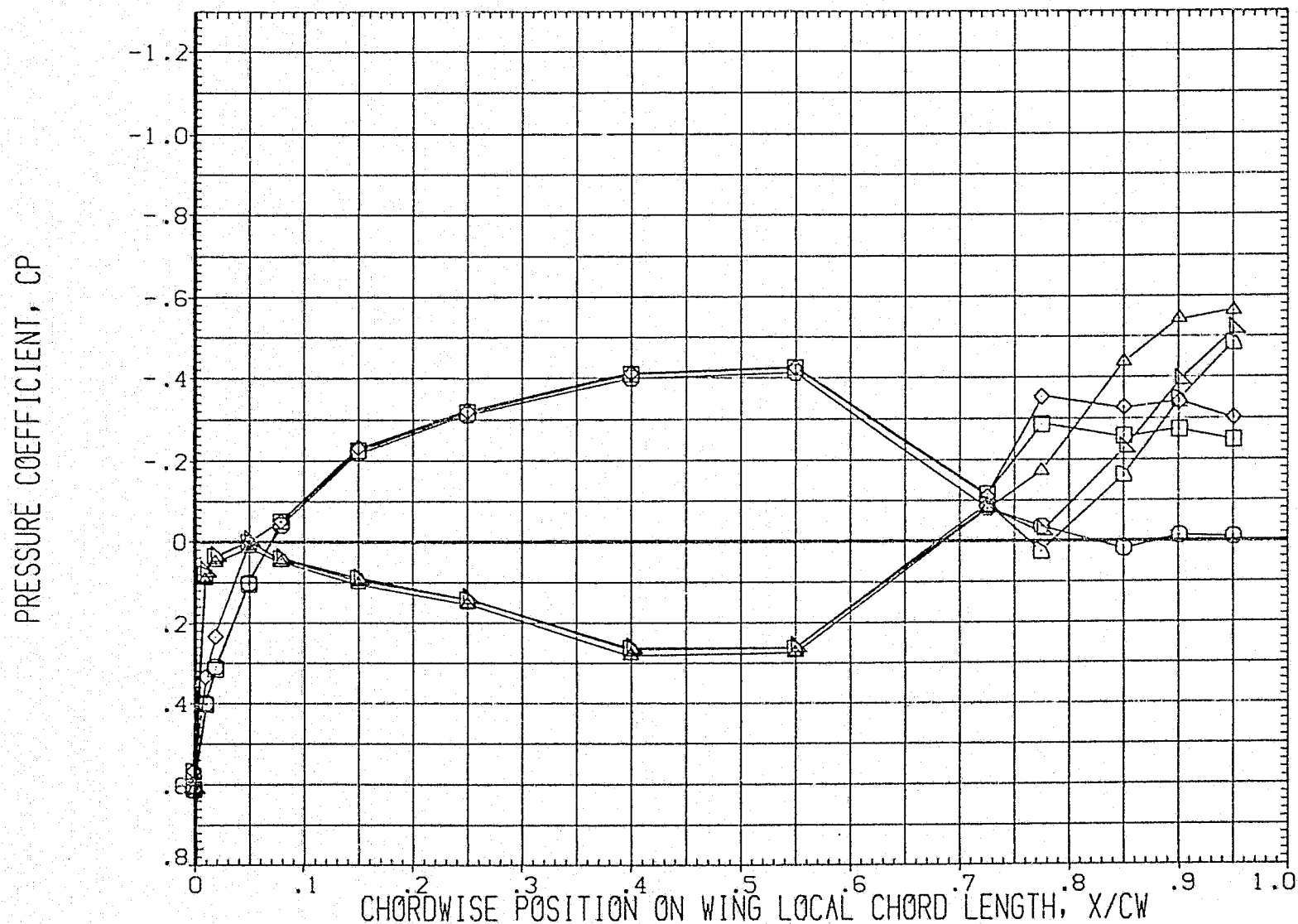


FIG. 84 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.25

ALPHA0= .000 BETA0 = .000 Y/BW = .534

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(1ETU21)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	.000	2.250	.000
(1ETU11)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	8.000	2.250	4.000
(1ETU19)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	10.000	2.250	4.000
(1ETL21)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	.000	2.250	.000
(1ETL11)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	8.000	2.250	4.000
(1ETL19)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	10.000	2.250	4.000

PRESSURE COEFFICIENT, CP

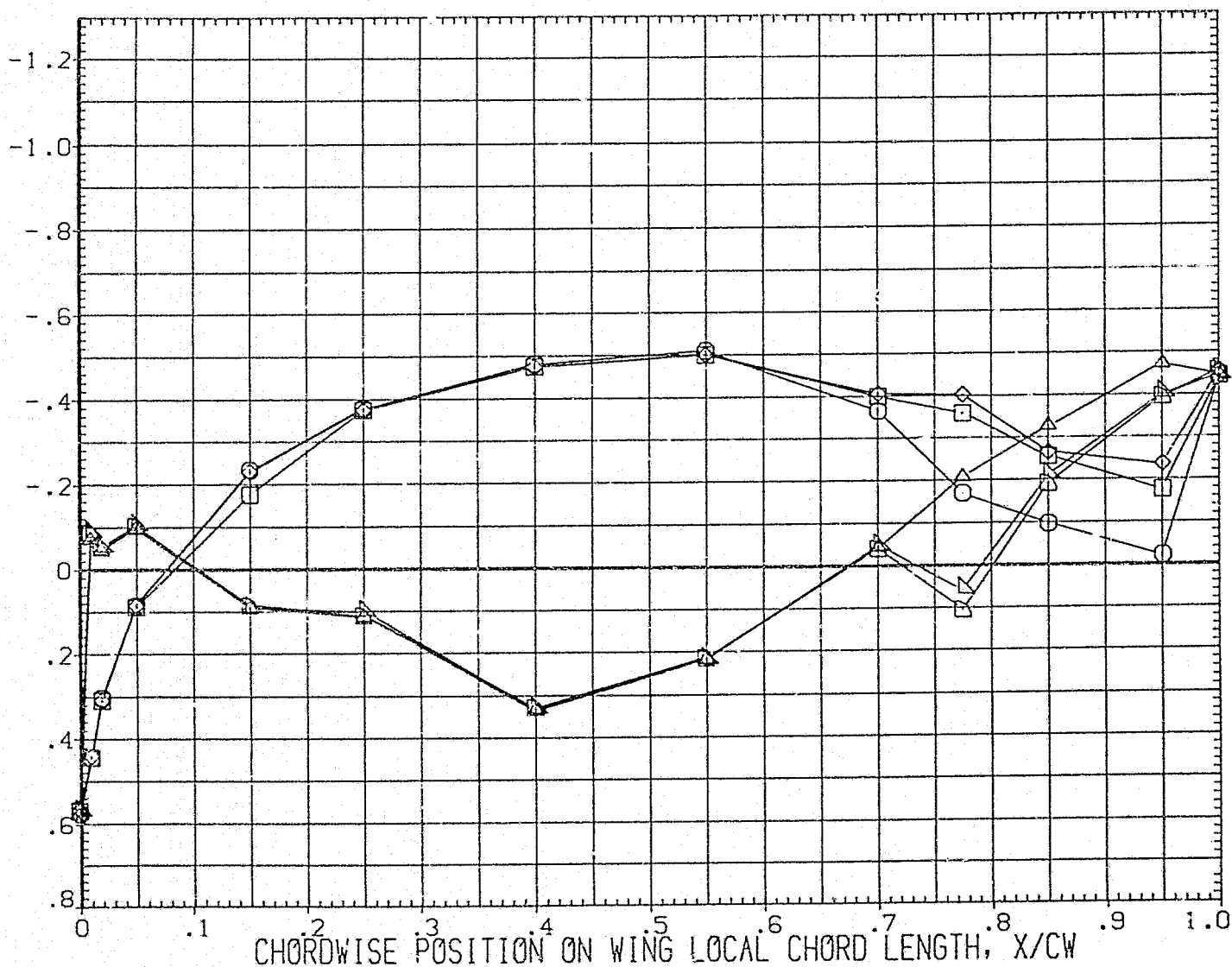


FIG. 84 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.25

ALPHA0= .000 BETA0 = .000 Y/BW = .673

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(IETU21)	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING TOP	1.250	.000	2.250	.000
(IETU11)	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING TOP	1.250	8.000	2.250	4.000
(IETU19)	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING TOP	1.250	10.000	2.250	4.000
(IETL21)	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	.000	2.250	.000
(IETL11)	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	8.000	2.250	4.000
(IETL19)	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	10.000	2.250	4.000

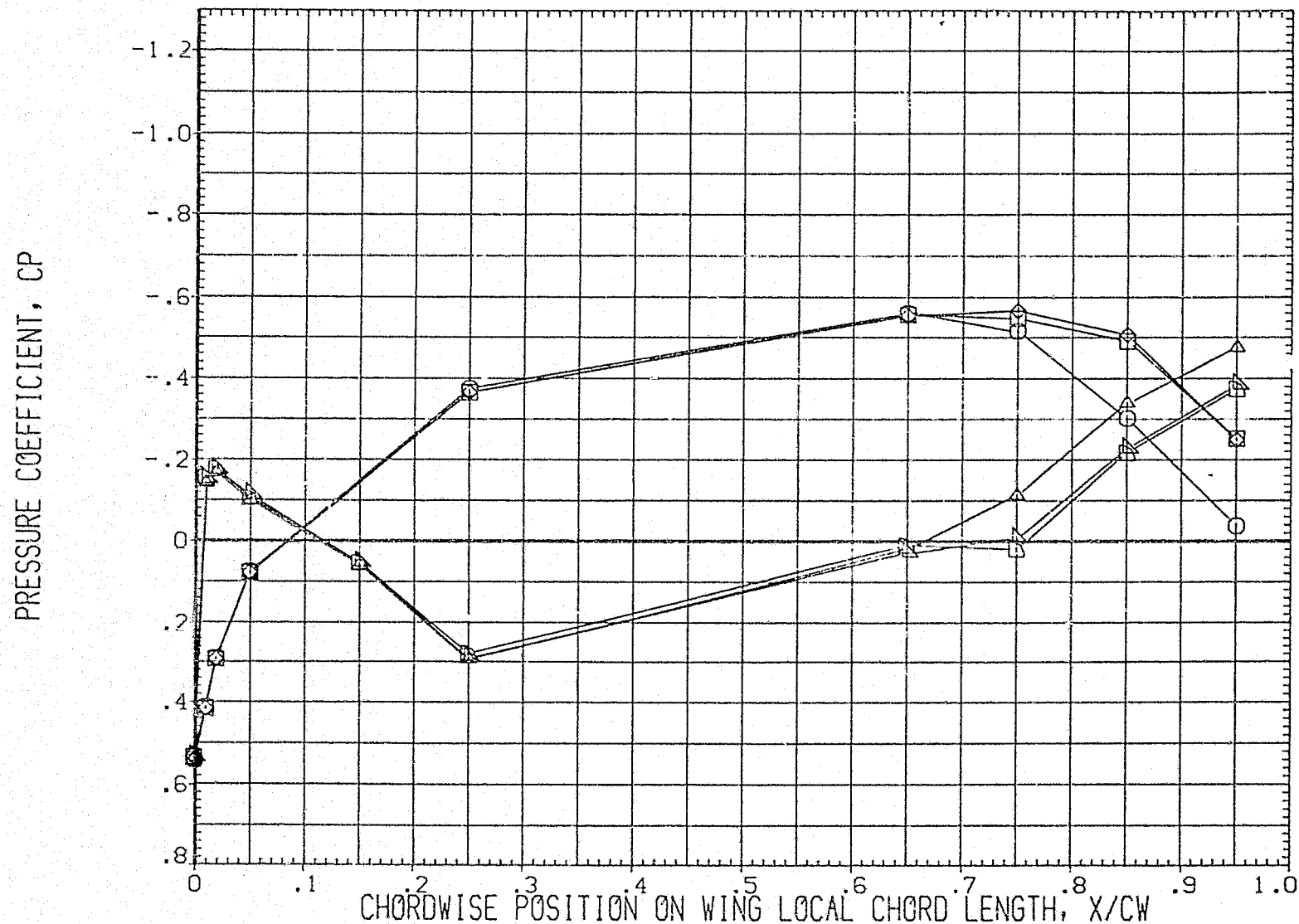


FIG. 84 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.25

ALPHA0= .000 BETAC = .000 Y/BW = .780

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-18	RN/FT	ELV-08
(1ETU21)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	.000	2.250	.000
(1ETU11)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	8.000	2.250	4.000
(1ETU19)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	10.000	2.250	4.000
(1ETL21)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	.000	2.250	.000
(1ETL11)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	8.000	2.250	4.000
(1ETL19)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	10.000	2.250	4.000

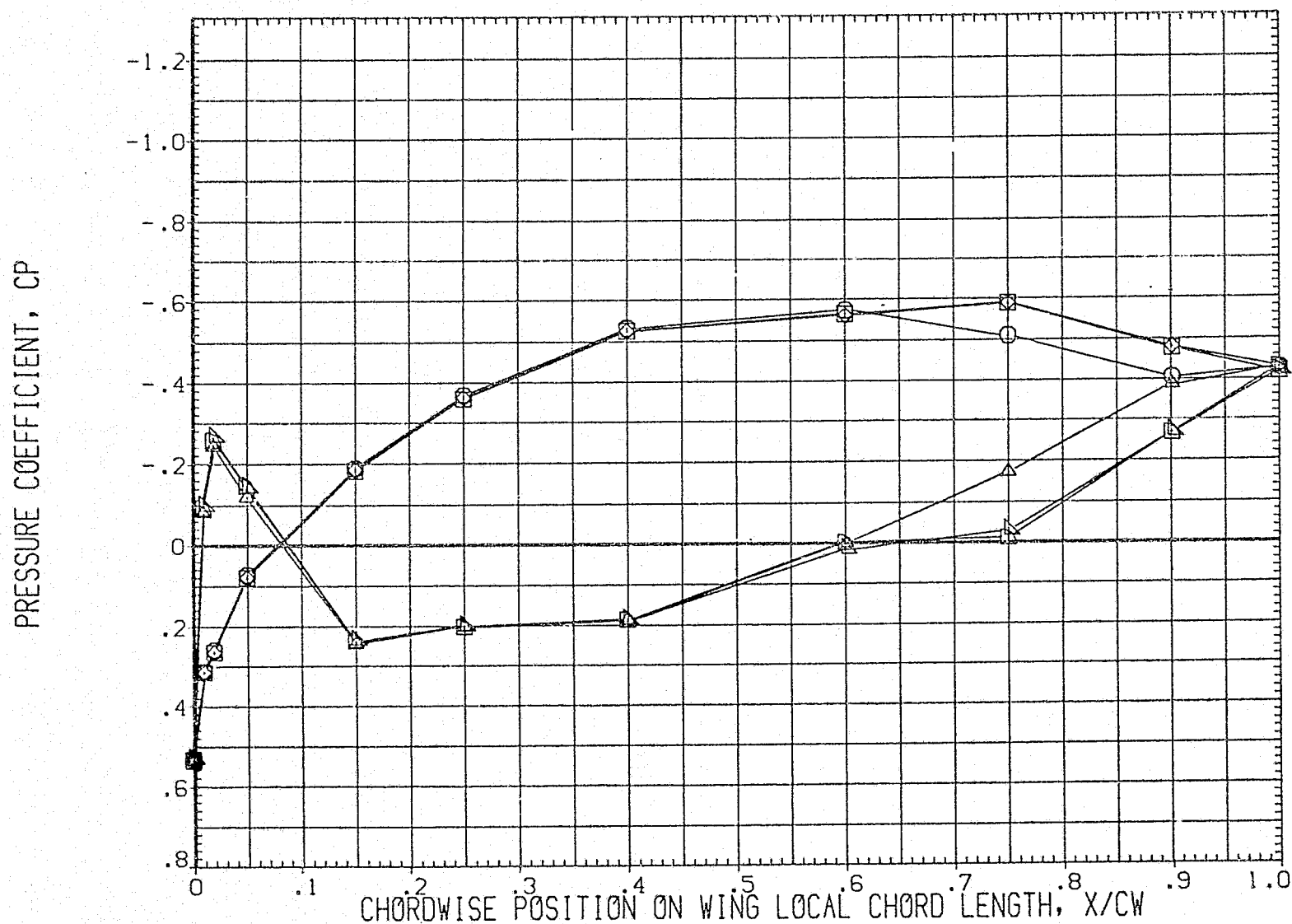


FIG. 84 WING CHORDWISE PRESS. DIST., ELEVON EFFECT. SPDBRK= 0, MACH = 1.25

ALPHA0= .000 BETA0 = .000 Y/BW = .887

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-18	RN/FT	ELV-08
(IETU21)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	.000	2.250	.000
(IETU11)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	8.000	2.250	4.000
(IETU19)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	10.000	2.250	4.000
(IETL21)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	.000	2.250	.000
(IETL11)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	8.000	2.250	4.000
(IETL19)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	10.000	2.250	4.000

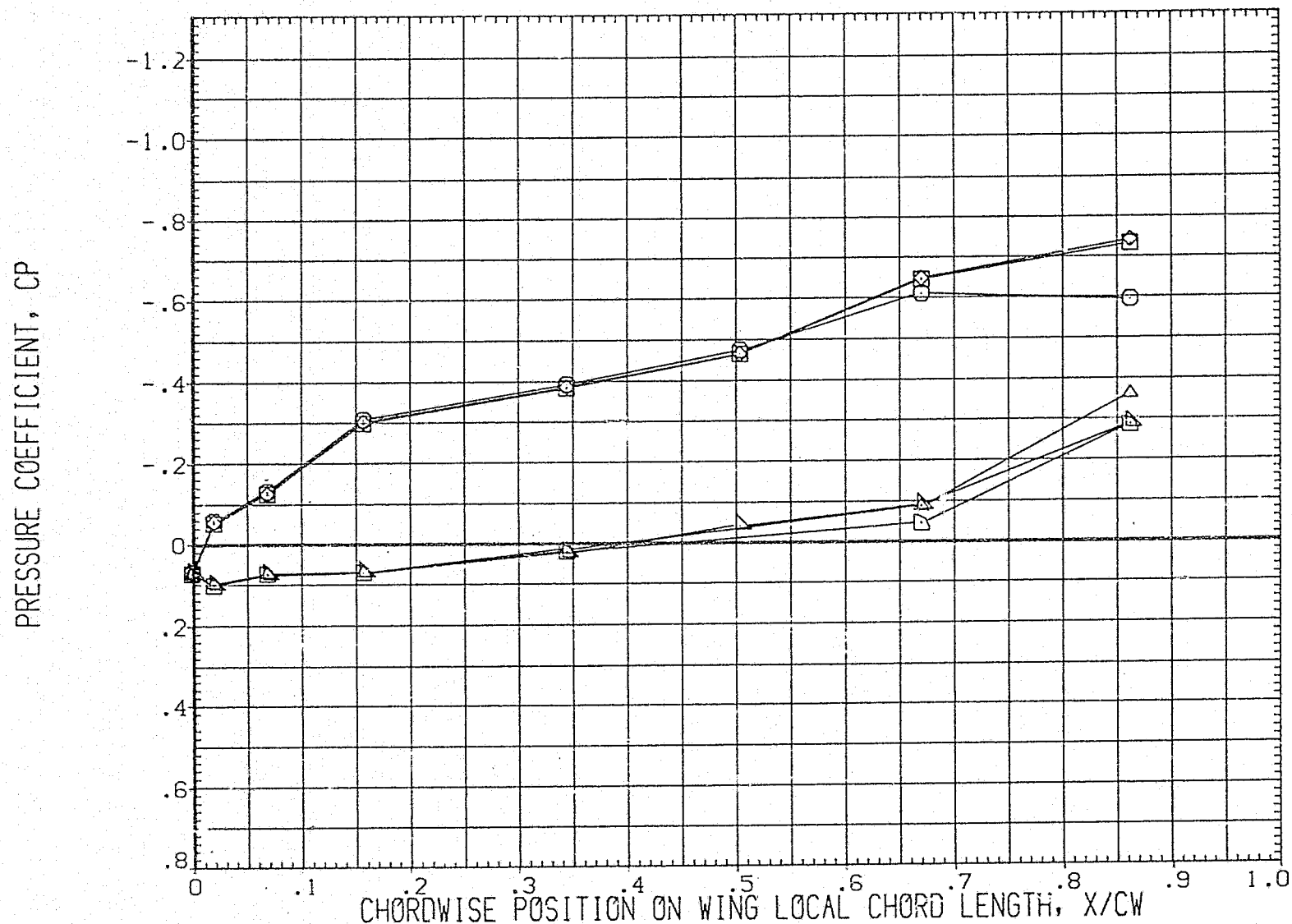


FIG. 84 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.25

ALPHA0= .000 BETA0 = .000 Y/BW = .972

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(JETU21)	DATA NOT AVAILABLE	1.250	.000	2.250	.000
(JETU11)	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING TOP	1.250	8.000	2.250	4.000
(JETU19)	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING TOP	1.250	10.000	2.250	4.000
(JETL21)	DATA NOT AVAILABLE	1.250	.000	2.250	.000
(JETL11)	DATA NOT AVAILABLE	1.250	8.000	2.250	4.000
(JETL19)	DATA NOT AVAILABLE	1.250	10.000	2.250	4.000

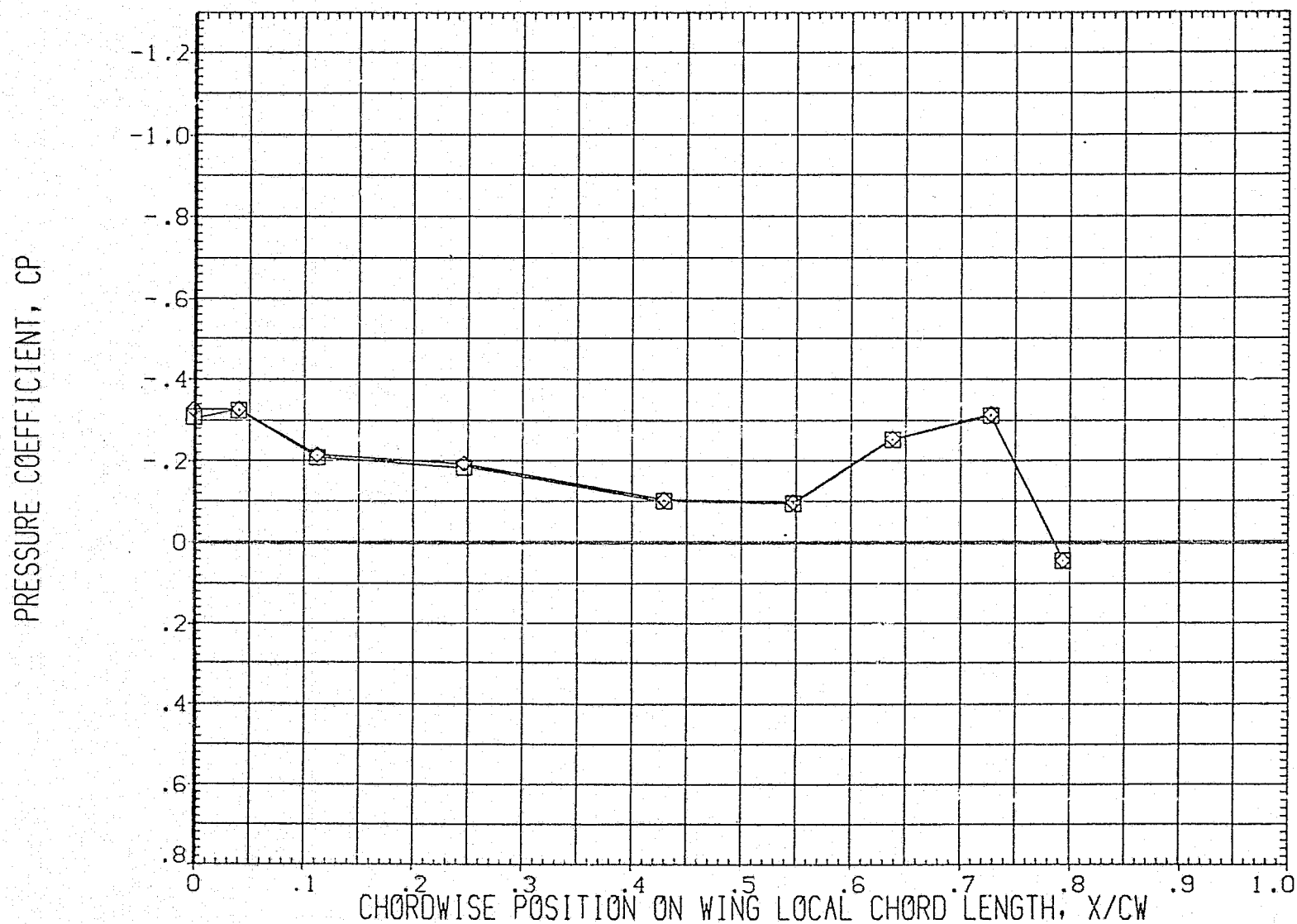


FIG. 84 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.25

ALPHA0= 4.000 BETA0 = .000 Y/BW = .235

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-IB	RN/FT	ELV-OB
(IETU21)	DATA NOT AVAILABLE	1.250	.000	2.250	.000
(IETU11)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	8.000	2.250	4.000
(IETU19)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	10.000	2.250	4.000
(IETL21)	DATA NOT AVAILABLE	1.250	.000	2.250	.000
(IETL11)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	8.000	2.250	4.000
(IETL19)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	10.000	2.250	4.000

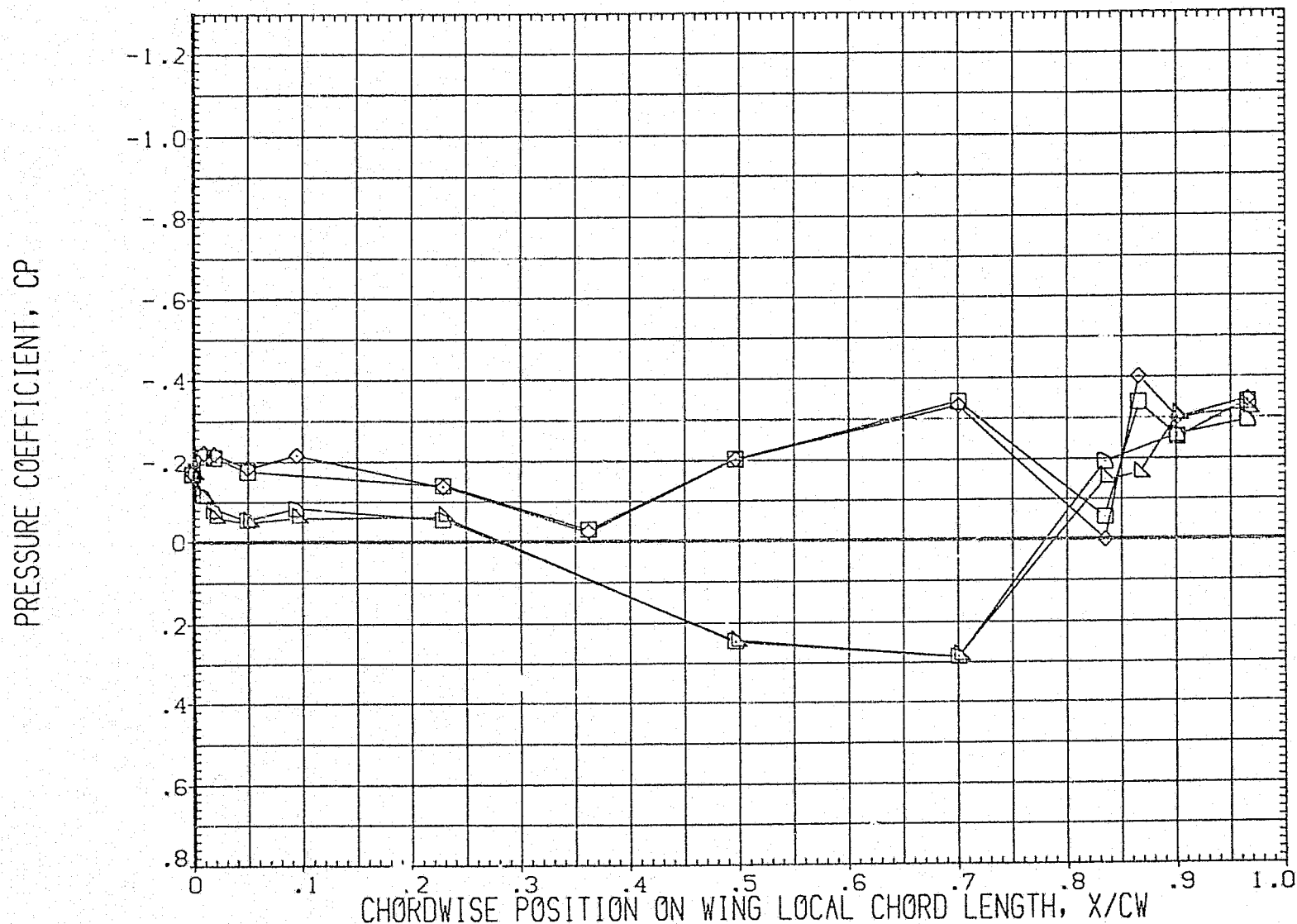


FIG. 84 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0. MACH = 1.25

ALPHA0 = 4.000 BETA0 = .000 Y/BW = .299

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-IB	RN/FT	ELV-OB
(IETU21)	DATA NOT AVAILABLE	1.250	.000	2.250	.000
(IETU11)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	8.000	2.250	4.000
(IETU19)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	10.000	2.250	4.000
(IETL21)	DATA NOT AVAILABLE	1.250	.000	2.250	.000
(IETL11)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	8.000	2.250	4.000
(IETL19)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	10.000	2.250	4.000

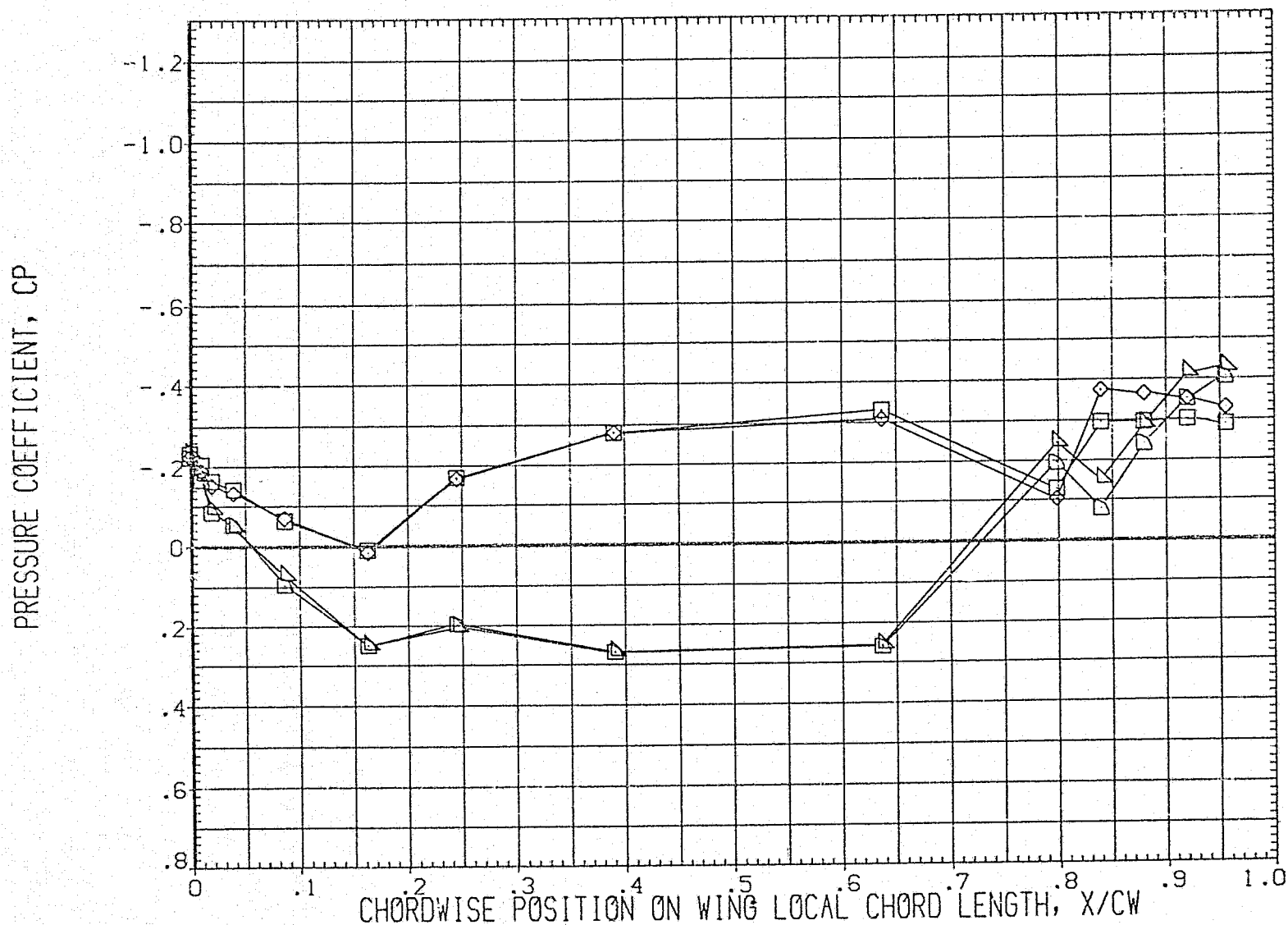


FIG. 84 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.25
 ALPHA0= 4.000 BETA0 = .000 Y/BW = .364 PAGE 1424

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(1ETU21)	DATA NOT AVAILABLE	1.250	.000	2.250	.000
(1ETU11)	ARC11-019 1A61 LVAP(ELHL SEALED) LEFT WING TOP	1.250	8.000	2.250	4.000
(1ETU19)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	10.000	2.250	4.000
(1ETL21)	DATA NOT AVAILABLE	1.250	.000	2.250	.000
(1ETL11)	ARC11-019 1A61 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	8.000	2.250	4.000
(1ETL19)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	10.000	2.250	4.000

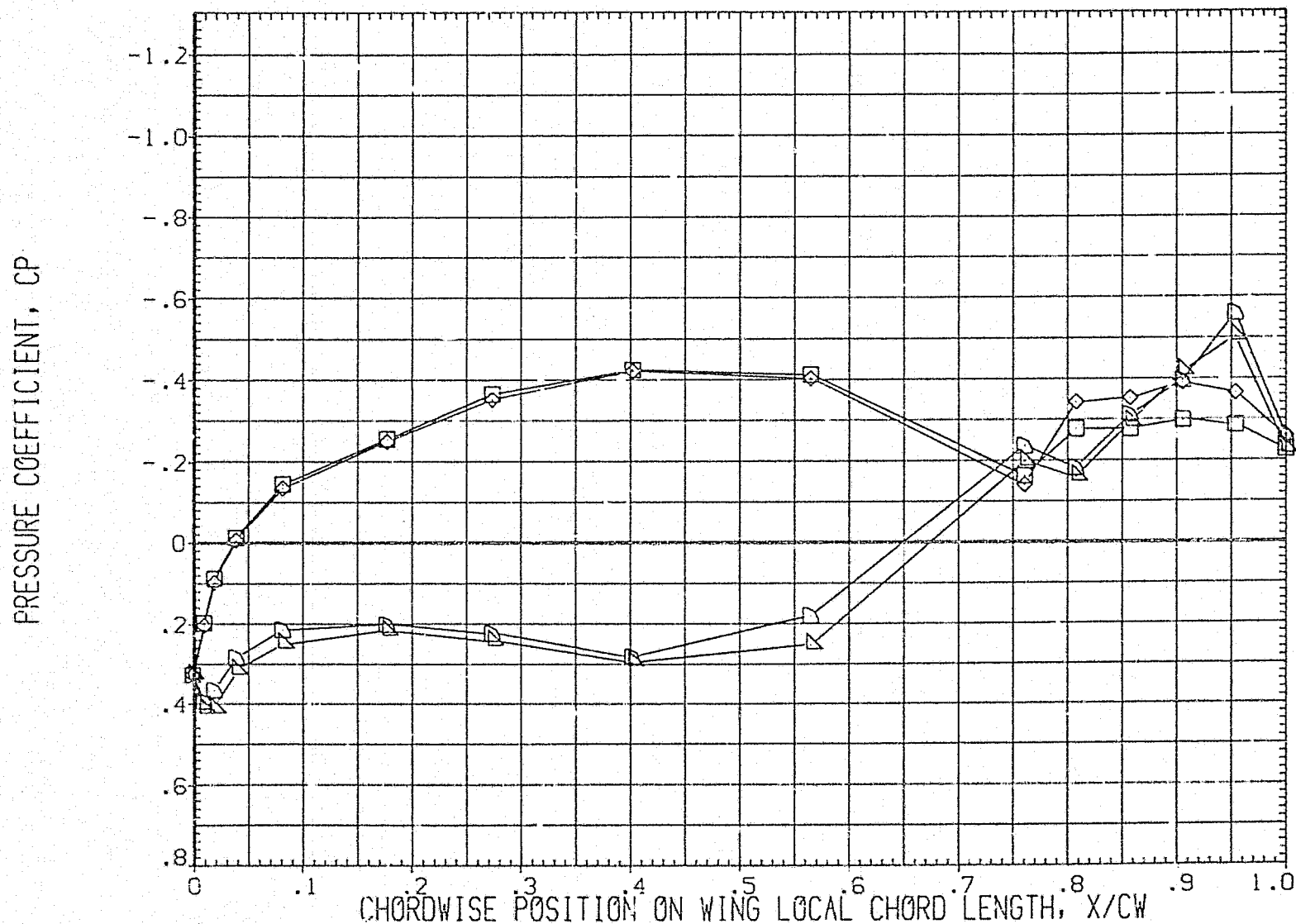


FIG. 84 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.25

ALPHA0= 4.000 BETA0 = .000 Y/BW = .427

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(IETU21)	DATA NOT AVAILABLE	1.250	.000	2.250	.000
(IETU11)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	8.000	2.250	4.000
(IETU19)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	10.000	2.250	4.000
(IETL21)	DATA NOT AVAILABLE	1.250	.000	2.250	.000
(IETL11)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	8.000	2.250	4.000
(IETL19)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	10.000	2.250	4.000

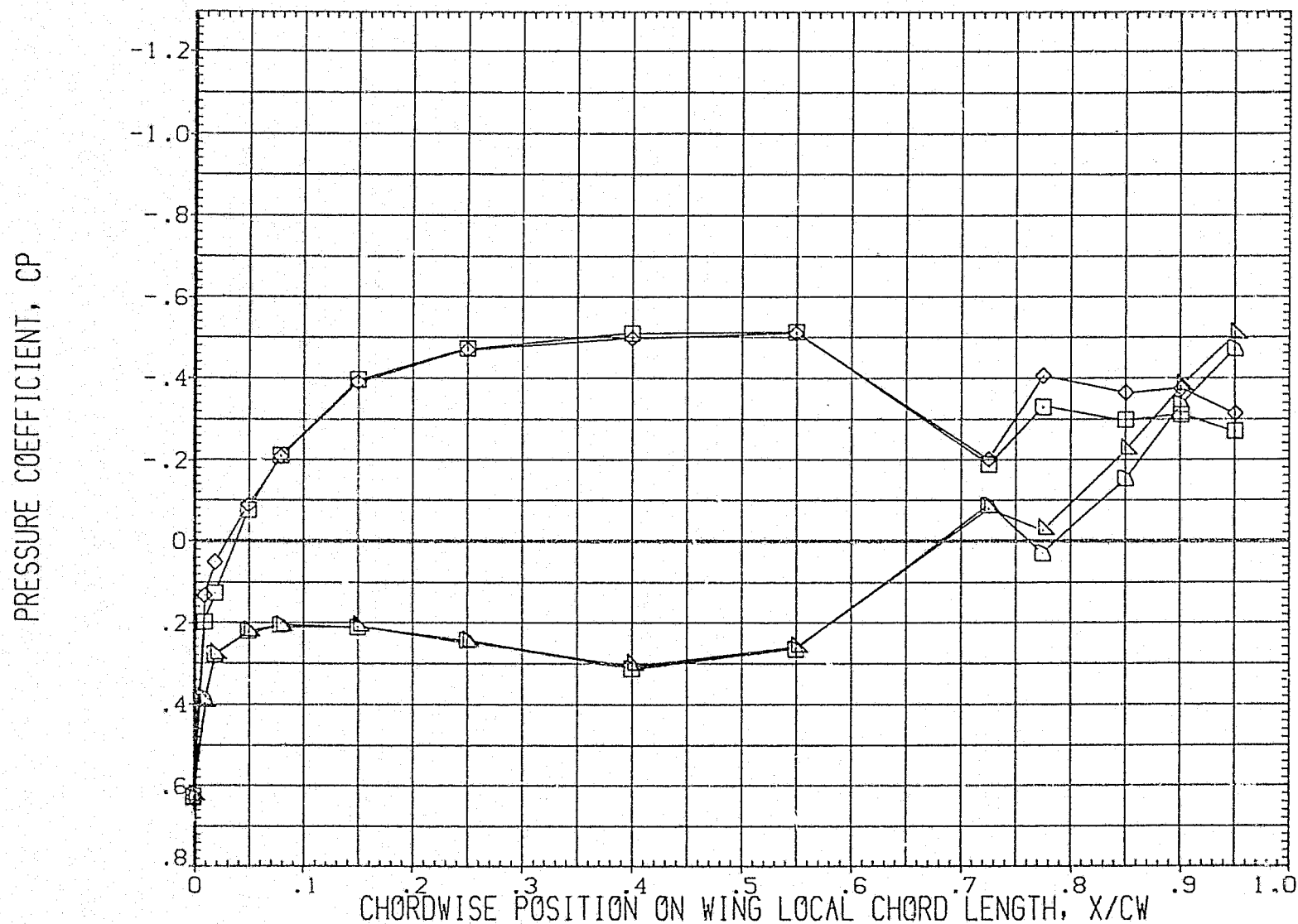


FIG. 84 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.25
 ALPHA0= 4.000 BETA0 = .000 Y/BW = .534 PAGE 1426

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-IB	RN/FT	ELV-OB
(IETU21)	DATA NOT AVAILABLE	1.250	.000	2.250	.000
(IETU11)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	8.000	2.250	4.000
(IETU13)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	10.000	2.250	4.000
(IETL2*)	DATA NOT AVAILABLE	1.250	.000	2.250	.000
(IETL11)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	8.000	2.250	4.000
(IETL19)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	10.000	2.250	4.000

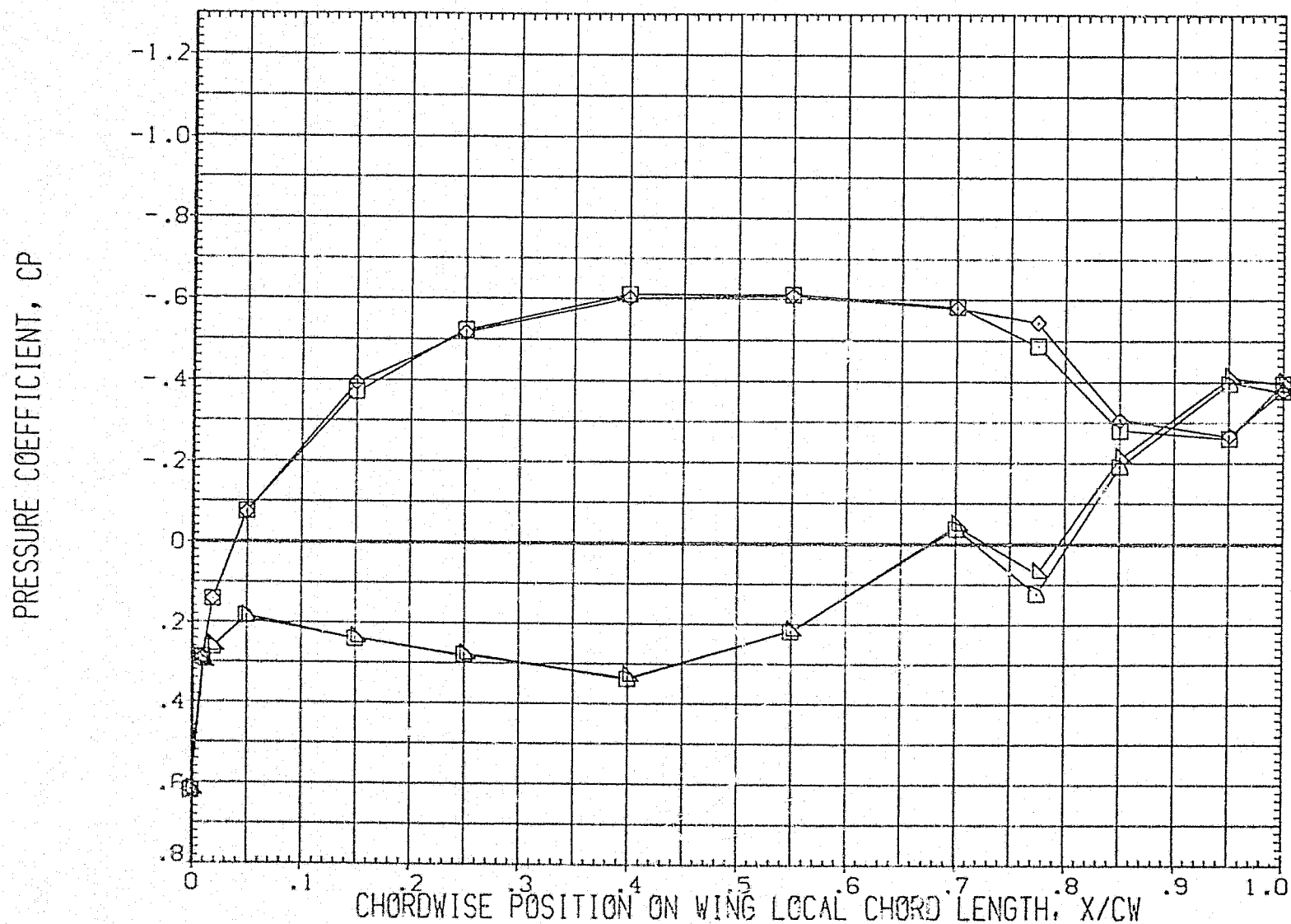


FIG. 84 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.25
 ALPHA0= 4.000 BETA0 = .000 Y/BW = .673 PAGE 1427

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-IB	RN/FT	ELV-OB
(IETU21)	DATA NOT AVAILABLE	1.250	.000	2.250	.000
(IETU11)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	8.000	2.250	4.000
(IETU19)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	10.000	2.250	4.000
(IETL21)	DATA NOT AVAILABLE	1.250	.000	2.250	.000
(IETL11)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	8.000	2.250	4.000
(IETL19)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	10.000	2.250	4.000

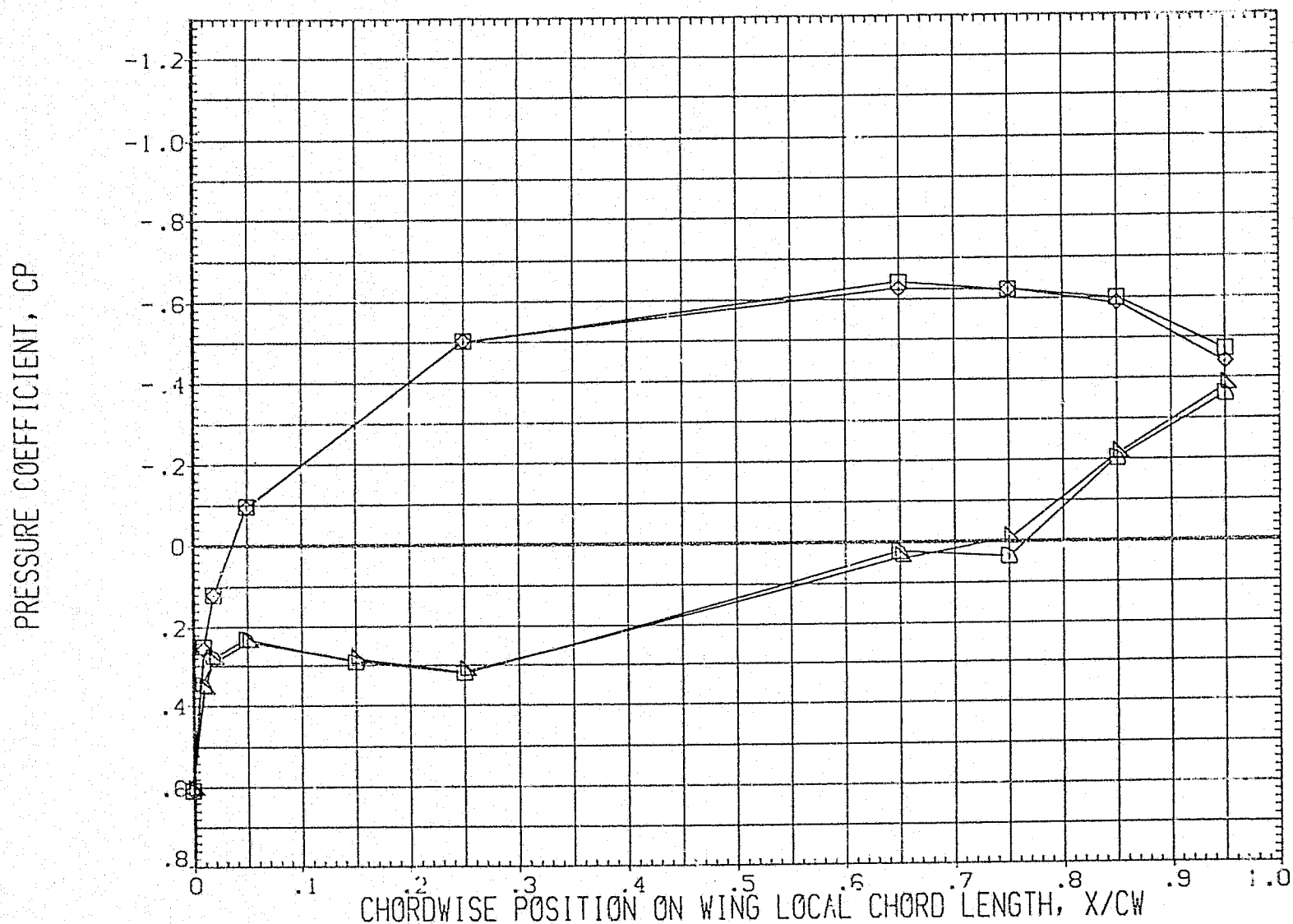


FIG. 84 WING CHORDWISE PRESS: DIST., ELEVON EFFECT, SPD8RK= 0, MACH = 1.25

ALPHA0= 4.000 BETA0 = .000 Y/BW = .780

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-IB	RN/FT	ELV-OB
(IETU21)	DATA NOT AVAILABLE	1.250	.000	2.250	.000
(IETU11)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	8.000	2.250	4.000
(IETU19)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	10.000	2.250	4.000
(IETL21)	DATA NOT AVAILABLE	1.250	.000	2.250	.000
(IETL11)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	8.000	2.250	4.000
(IETL19)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	10.000	2.250	4.000

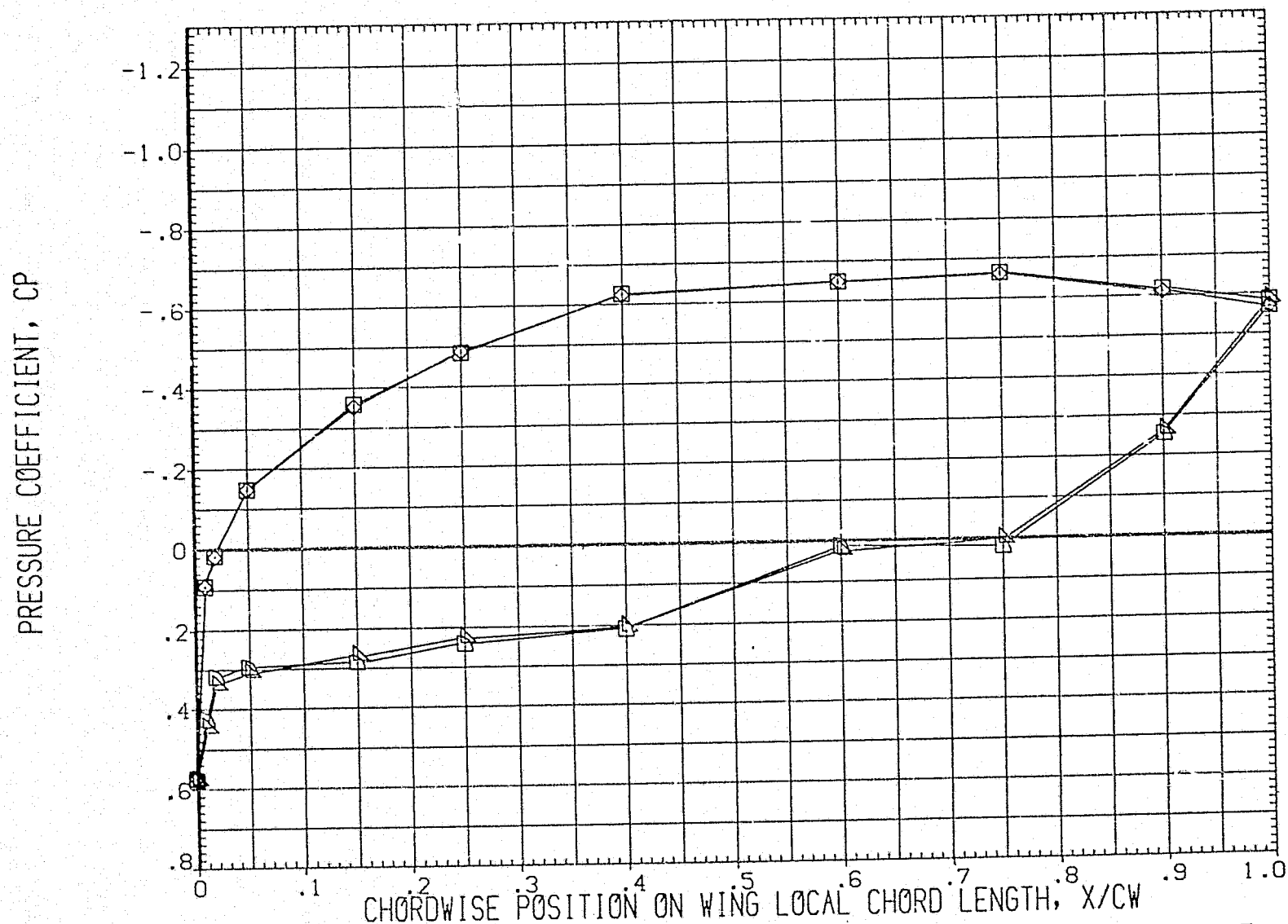


FIG. 84 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.25

ALPHA0= 4.000 BETA0 = .000 Y/BW = .887

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(IETU21)	DATA NOT AVAILABLE	1.250	.000	2.250	.000
(IETU11)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	8.000	2.250	4.000
(IETU19)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.250	10.000	2.250	4.000
(IETL21)	DATA NOT AVAILABLE	1.250	.000	2.250	.000
(IETL11)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	8.000	2.250	4.000
(IETL19)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.250	10.000	2.250	4.000

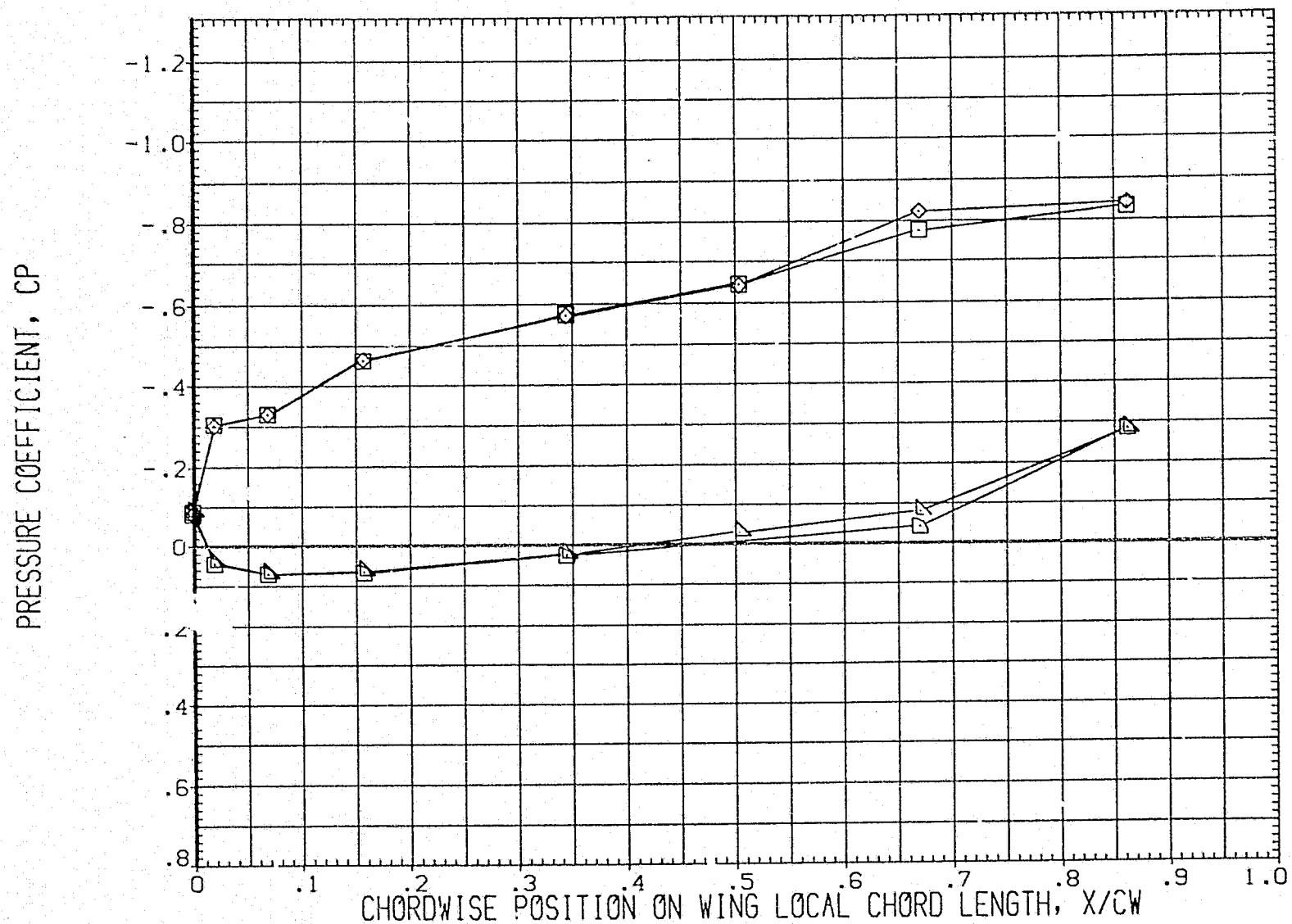


FIG. 84 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0. MACH = 1.25
 ALPHA0= 4.000 BETA0 = .000 Y/BW = .972 PAGE 1430

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(IETU20) DATA NOT AVAILABLE
 (IETU12) ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP
 (IETU14) ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP
 (IETL20) DATA NOT AVAILABLE
 (IETL12) DATA NOT AVAILABLE
 (IETL14) DATA NOT AVAILABLE

MACH	ELV-1B	RN/FT	ELV-0B
1.400	.000	2.250	.000
1.400	8.000	2.250	.000
1.400	8.000	2.250	-4.000
1.400	.000	2.250	.000
1.400	8.000	2.250	.000
1.400	8.000	2.250	-4.000

PRESSURE COEFFICIENT, CP

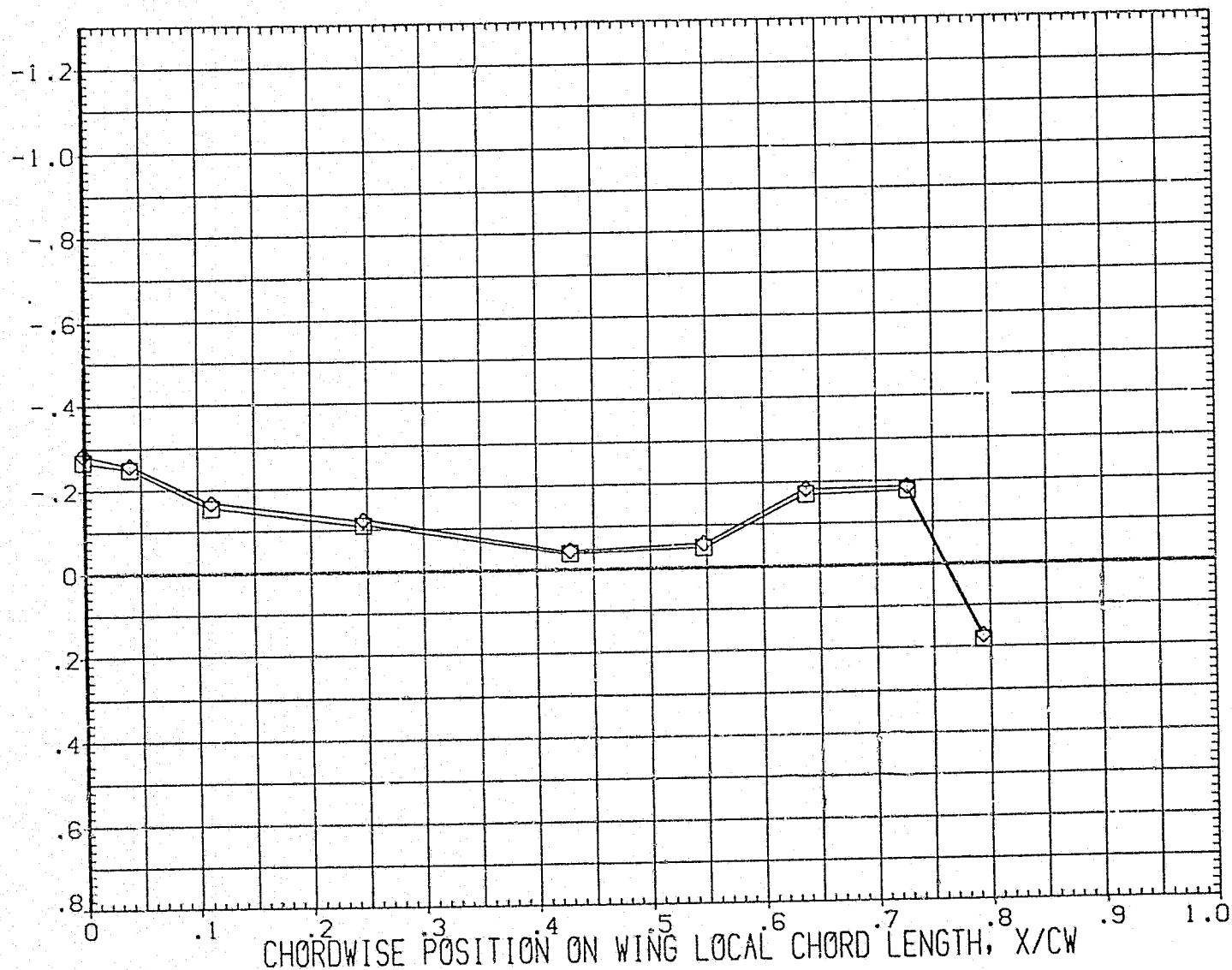


FIG. 85 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.4

ALPHA0= -4.000 BETA0 = .000 Y/BW = .235

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-IB	RN/FT	ELV-OB
(IETU20)	DATA NOT AVAILABLE	1.400	.000	2.250	.000
(IETU12)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	8.000	2.250	.000
(IETU14)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	8.000	2.250	-4.000
(IETL20)	DATA NOT AVAILABLE	1.400	.000	2.250	.000
(IETL12)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	8.000	2.250	.000
(IETL14)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	8.000	2.250	-4.000

PRESSURE COEFFICIENT, CP

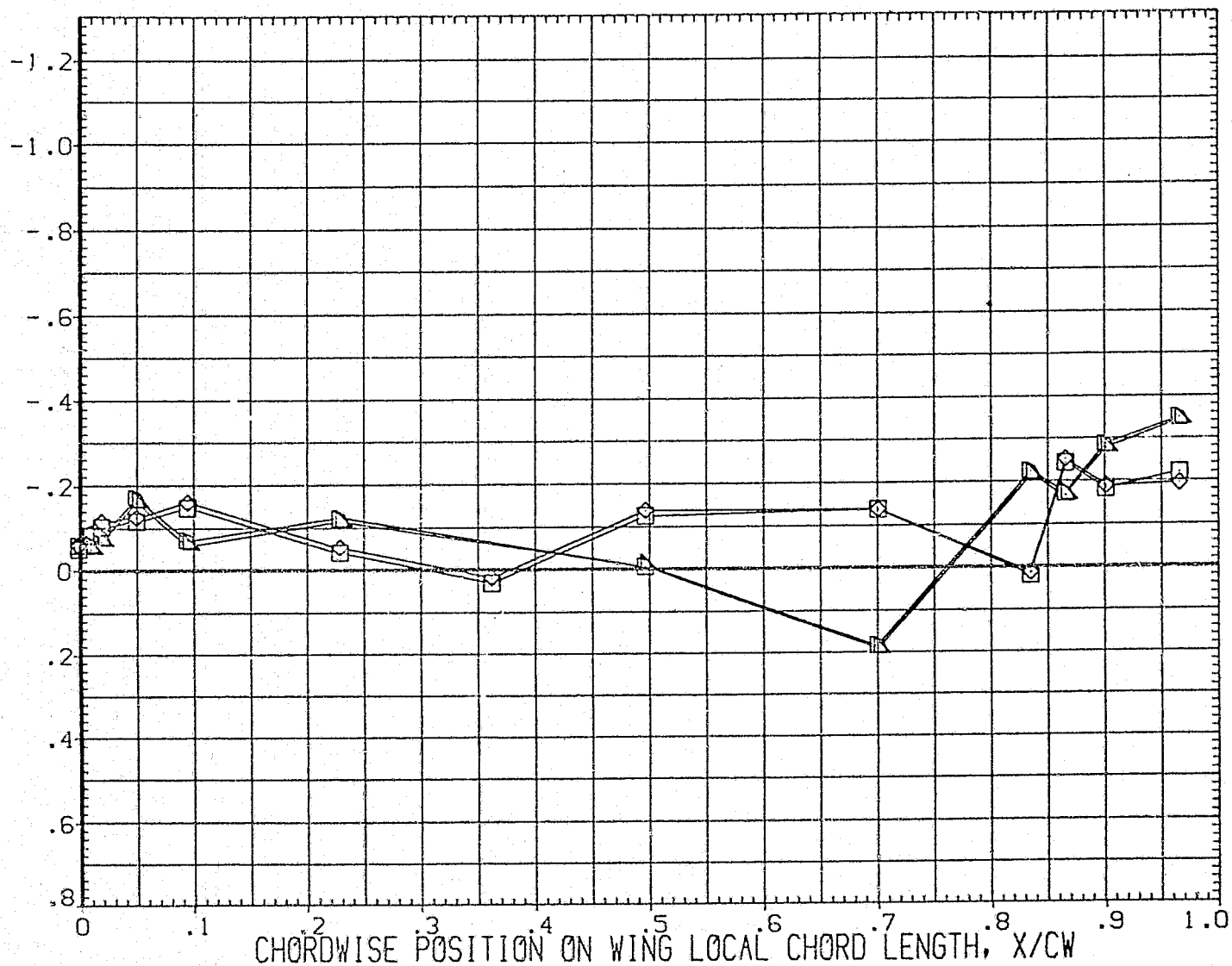


FIG. 85 WING CHORDWISE PRESS. DIST.. ELEVON EFFECT, SPDBRK= 0, MACH = 1.4

ALPHA0= -4.000 BETA0 = .000 Y/BW = .299

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(IETU20)	DATA NOT AVAILABLE	1.400	.000	2.250	.000
(IETU12)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	8.000	2.250	.000
(IETU14)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	8.000	2.250	-4.000
(IETL20)	DATA NOT AVAILABLE	1.400	.000	2.250	.000
(IETL12)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	8.000	2.250	.000
(IETL14)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	8.000	2.250	-4.000

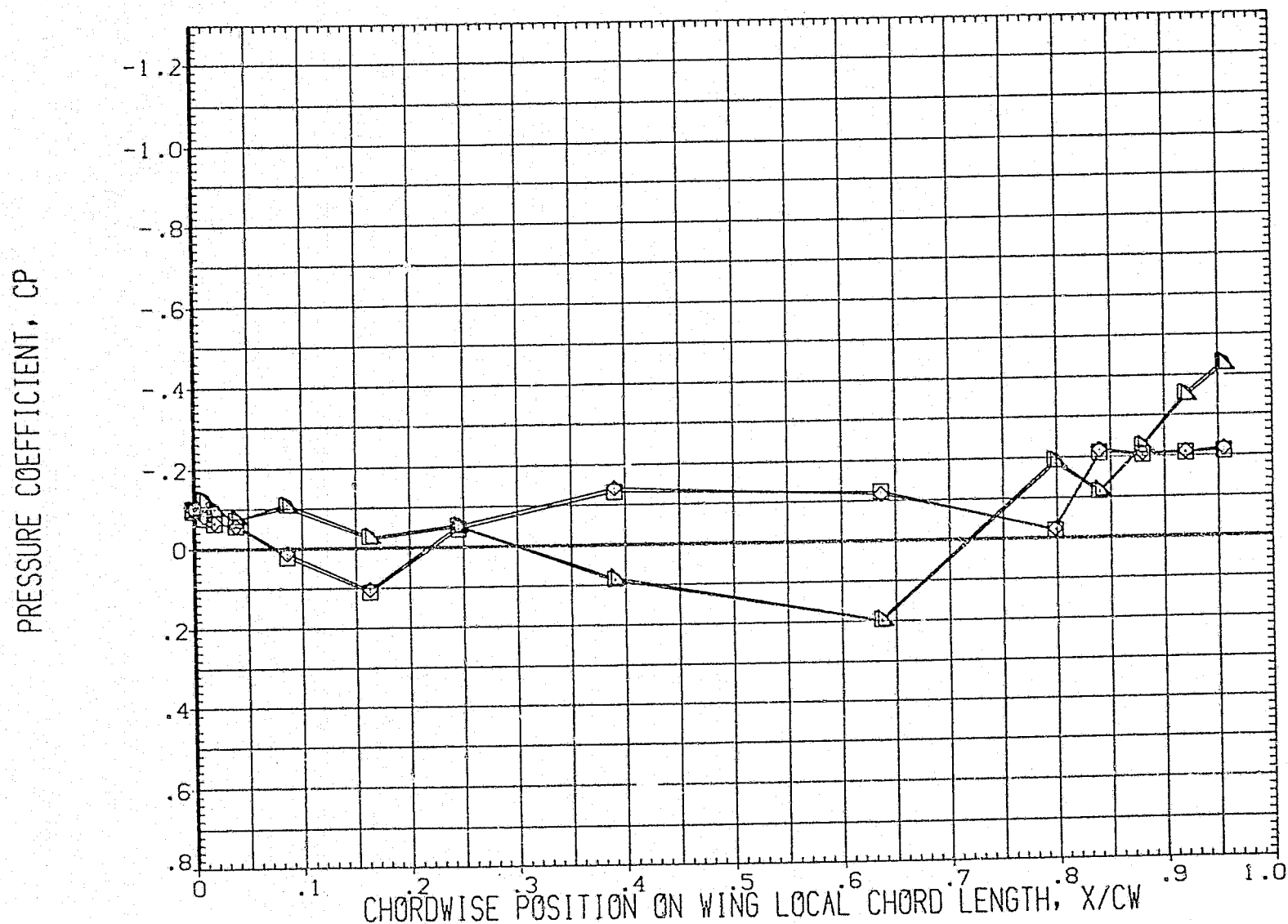


FIG. 85 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.4

ALPHA0= -4.000 BETA0 = .000 Y/BW = .364

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(IETU20) DATA NOT AVAILABLE
 (IETU12) ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP
 (IETU14) ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP
 (IETL20) DATA NOT AVAILABLE
 (IETL12) ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.
 (IETL14) ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.

MACH	ELV-19	RN/FT	ELV-08
1.400	.000	2.250	.000
1.400	8.000	2.250	.000
1.400	8.000	2.250	-4.000
1.400	.000	2.250	.000
1.400	8.000	2.250	.000
1.400	8.000	2.250	-4.000

PRESSURE COEFFICIENT, CP

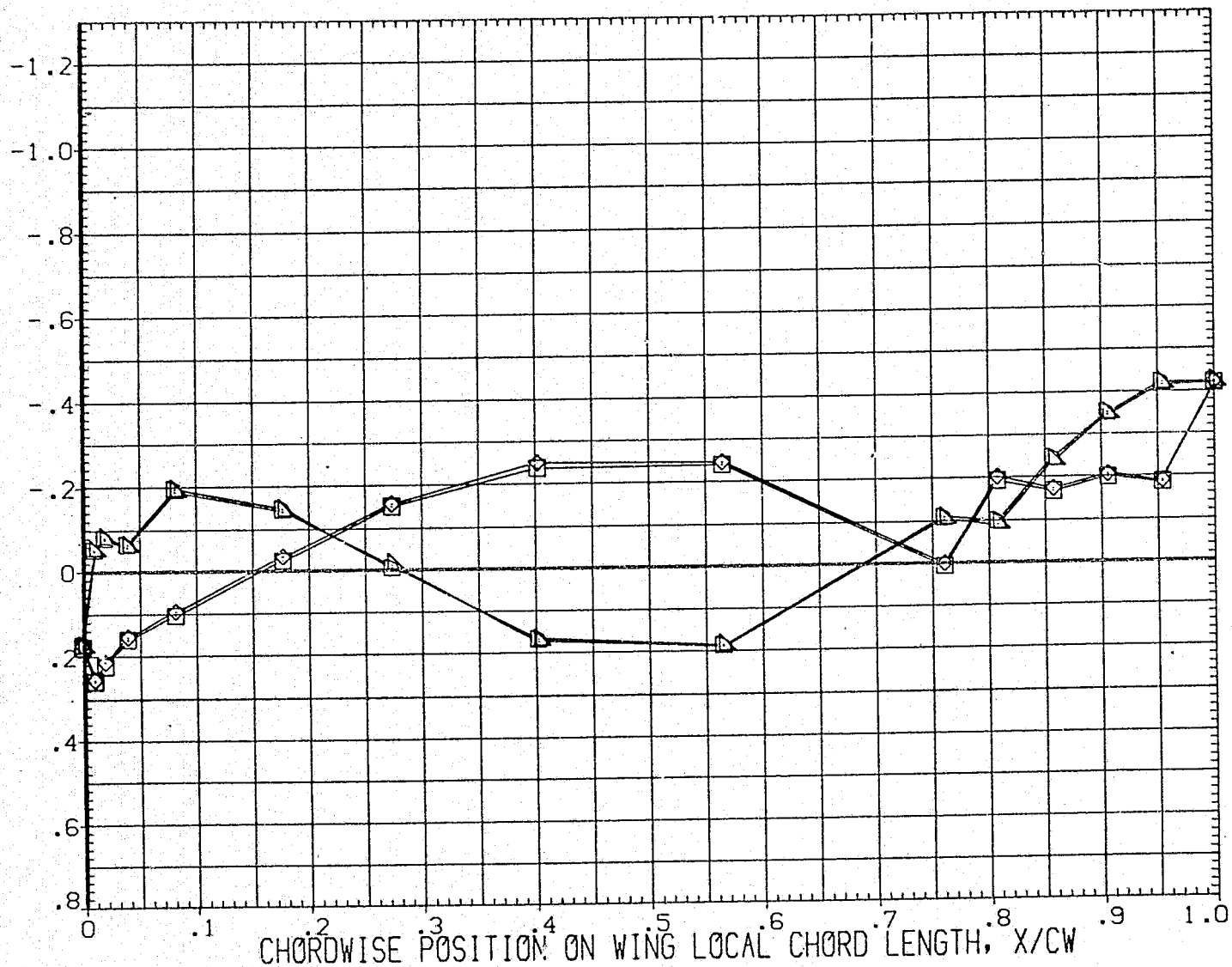


FIG. 85 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.4

ALPHA0= -4.000 BETA0 = .000 Y/BW = .427

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-IB	RN/FT	ELV-OB
(IETU20)	DATA NOT AVAILABLE	1.400	.000	2.250	.000
(IETU12)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	8.000	2.250	.000
(IETU14)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	8.000	2.250	-4.000
(IETL20)	DATA NOT AVAILABLE	1.400	.000	2.250	.000
(IETL12)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	8.000	2.250	.000
(IETL14)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	8.000	2.250	-4.000

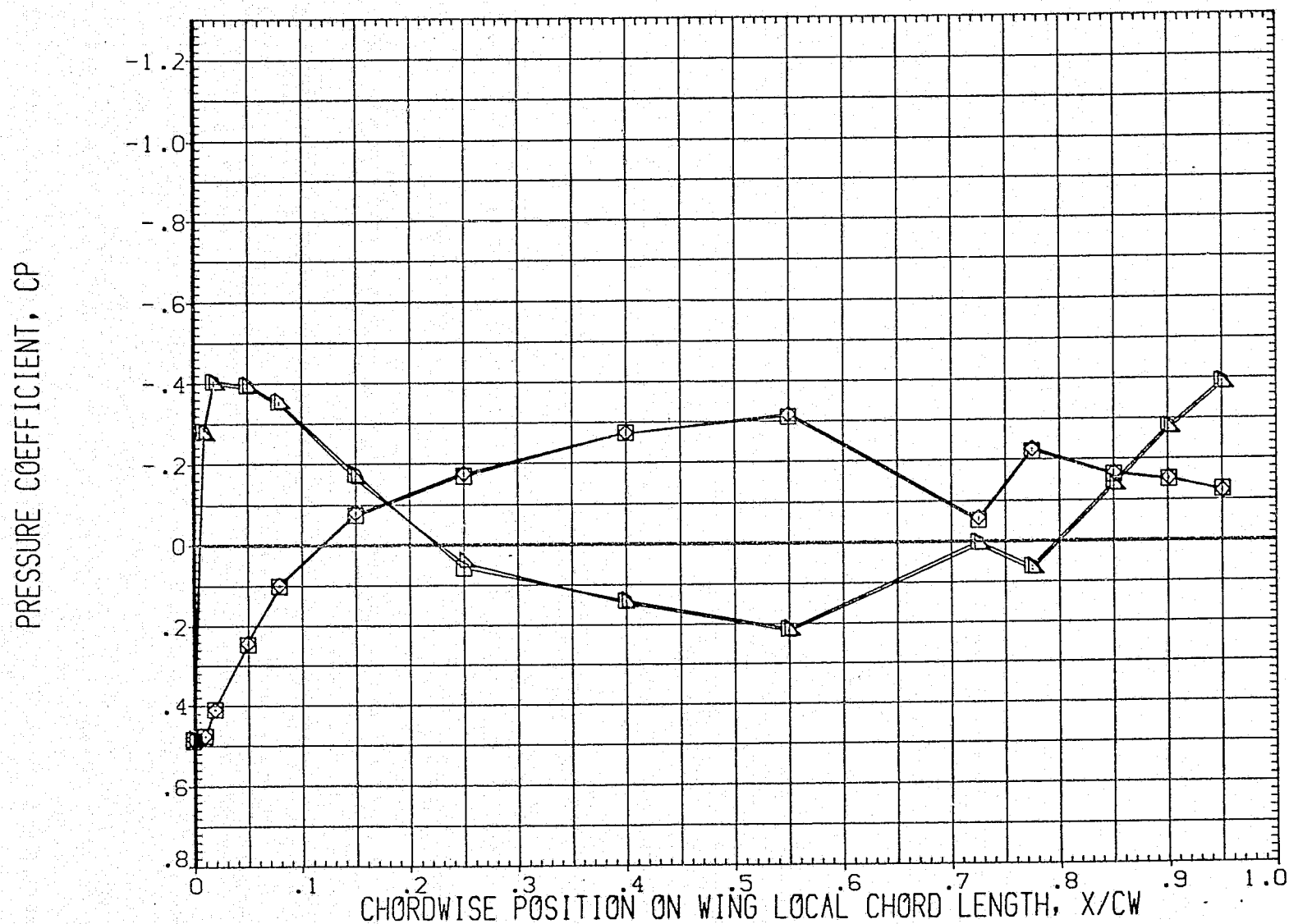


FIG. 85 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.4

ALPHA0= -4.000 BETA0 = .000 Y/BW = .534

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-IB	RN/FT	ELV-OB
(IETU20)	DATA NOT AVAILABLE	1.400	.000	2.250	.000
(IETU12)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	8.000	2.250	.000
(IETU14)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	8.000	2.250	-4.000
(IETL20)	DATA NOT AVAILABLE	1.400	.000	2.250	.000
(IETL12)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	8.000	2.250	.000
(IETL14)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	8.000	2.250	-4.000

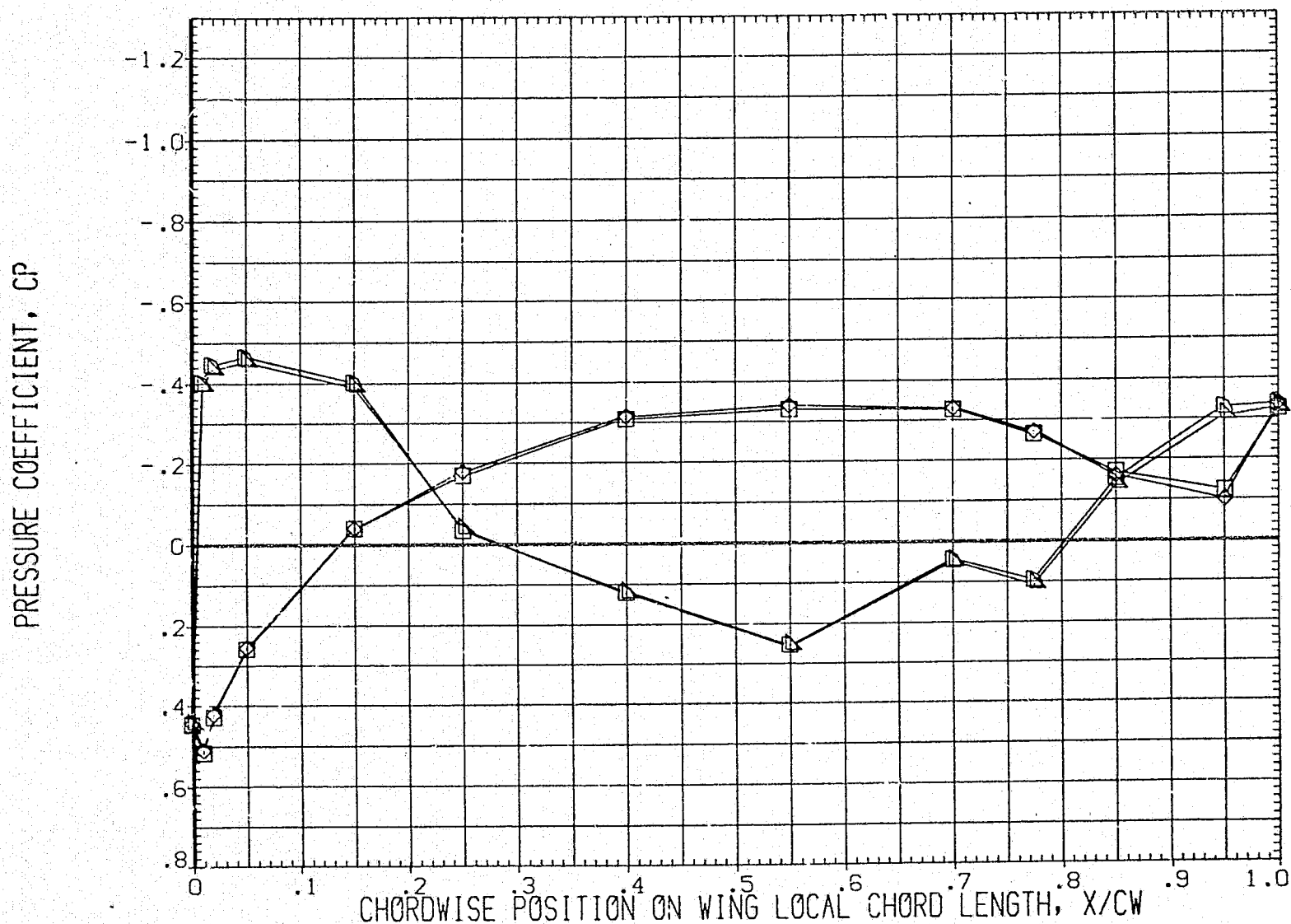


FIG. 85 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.4

ALPHA0= -4.000 BETA0 = .000 Y/BW = .673

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(IETU20)	DATA NOT AVAILABLE	1.400	.000	2.250	.000
(IETU12)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	8.000	2.250	.000
(IETU14)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TCP	1.400	8.000	2.250	-4.000
(IETL20)	DATA NOT AVAILABLE	1.400	.000	2.250	.000
(IETL12)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	8.000	2.250	.000
(IETL14)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	8.000	2.250	-4.000

PRESSURE COEFFICIENT, CP

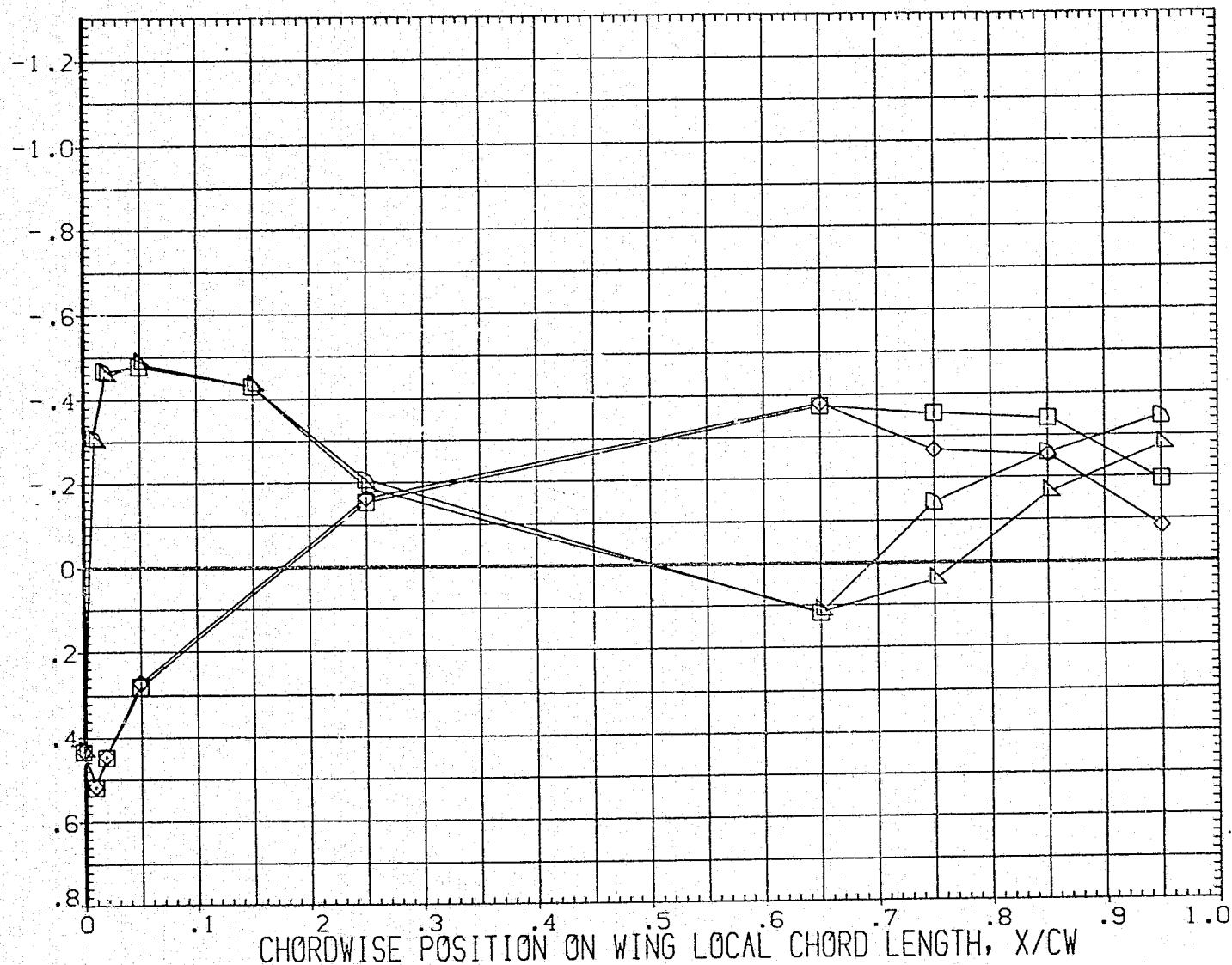


FIG. 85 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.4

ALPHA0= -4.000 BETA0 = .000 Y/BW = .780

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(IETU20)	DATA NOT AVAILABLE	1.400	.000	2.250	.000
(IETU12)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	8.000	2.250	.000
(IETU14)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	8.000	2.250	-4.000
(IETL20)	DATA NOT AVAILABLE	1.400	.000	2.250	.000
(IETL12)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	8.000	2.250	.000
(IETL14)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	8.000	2.250	-4.000

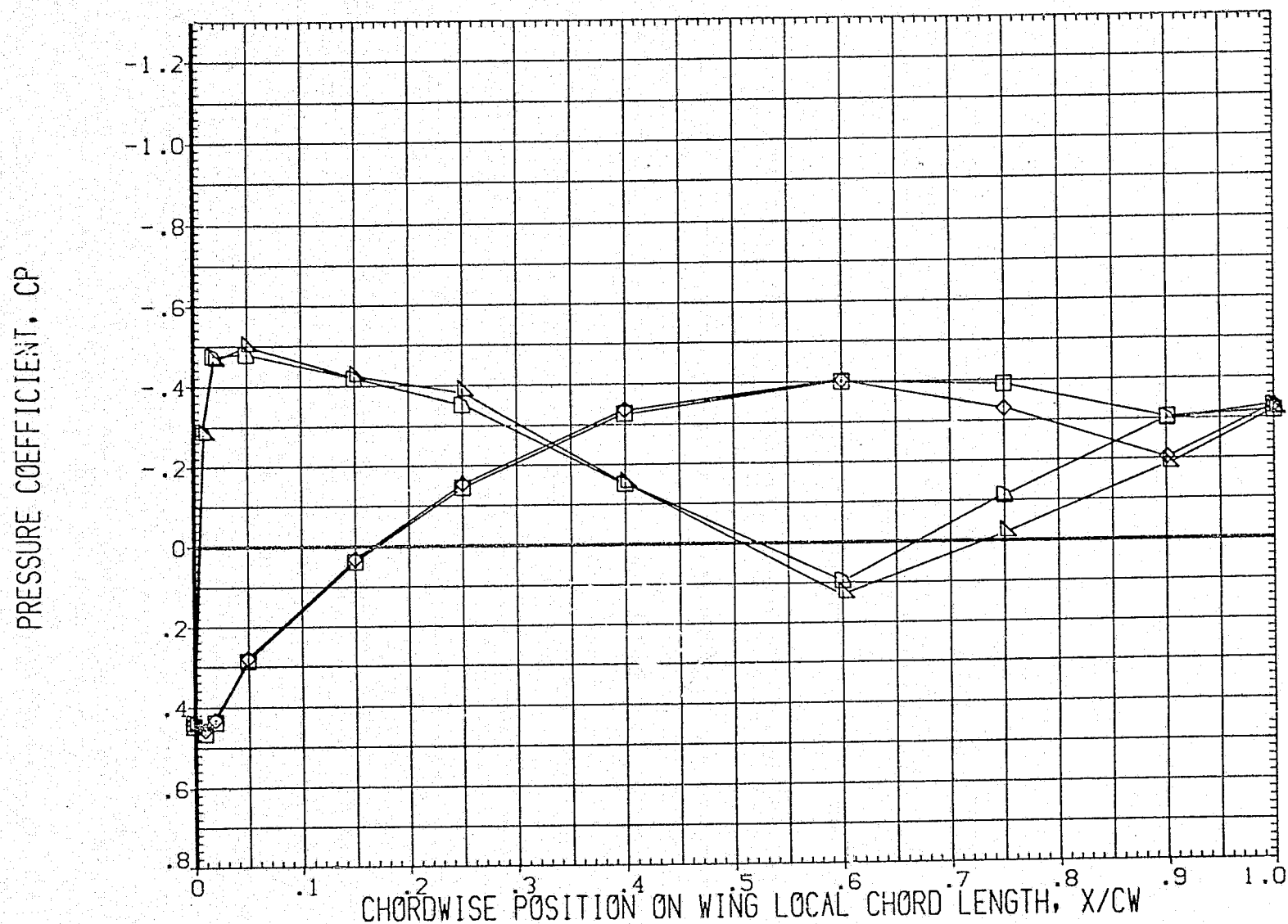


FIG. 85 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.4

ALPHA0= -4.000 BETA0 = .000 Y/BW = .887

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-18	RN/FT	ELV-08
(IETU20)	DATA NOT AVAILABLE	1.400	.000	2.250	.000
(IETU12)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	8.000	2.250	.000
(IETU14)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	8.000	2.250	-4.000
(IETL20)	DATA NOT AVAILABLE	1.400	.000	2.250	.000
(IETL12)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	8.000	2.250	.000
(IETL14)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	8.000	2.250	-4.000

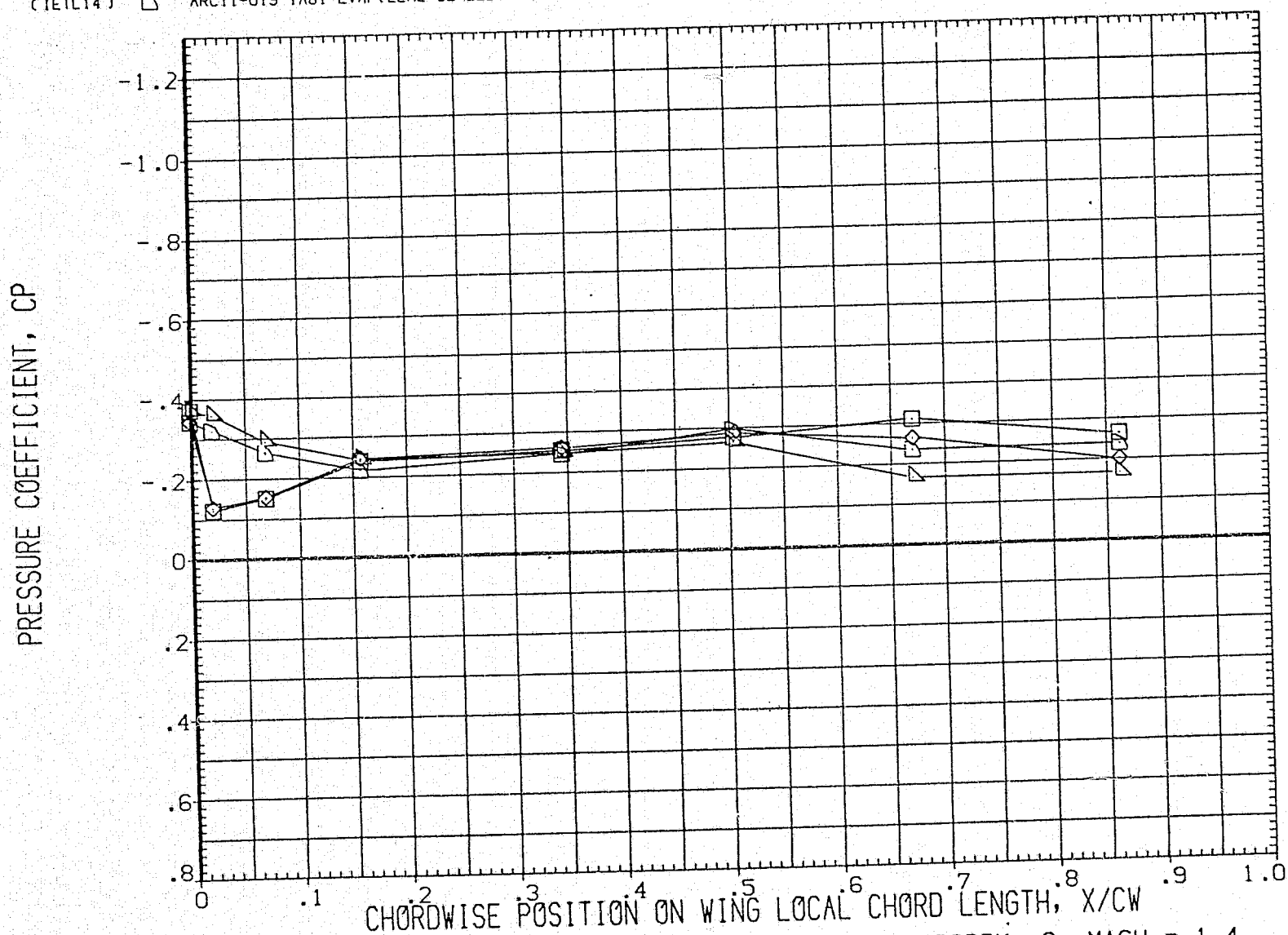


FIG. 85 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.4
 ALPHA0= -4.000 BETA0 = .000 Y/BW = .972

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(IETU20)	ARC11-019 IA81 LVAP(ELHL SEALED)	LEFT WING TOP
(IETU12)	ARC11-019 IA81 LVAP(ELHL SEALED)	LEFT WING TOP
(IETU14)	ARC11-019 IA81 LVAP(ELHL SEALED)	LEFT WING TOP
(IETL20)	DATA NOT AVAILABLE	
(IETL12)	DATA NOT AVAILABLE	
(IETL14)	DATA NOT AVAILABLE	

MACH	ELV-IB	RN/FT	ELV-OB
1.400	.000	2.250	.000
1.400	8.000	2.250	.000
1.400	8.000	2.250	-4.000
1.400	.000	2.250	.000
1.400	8.000	2.250	.000
1.400	8.000	2.250	-4.000

PRESSURE COEFFICIENT, CP

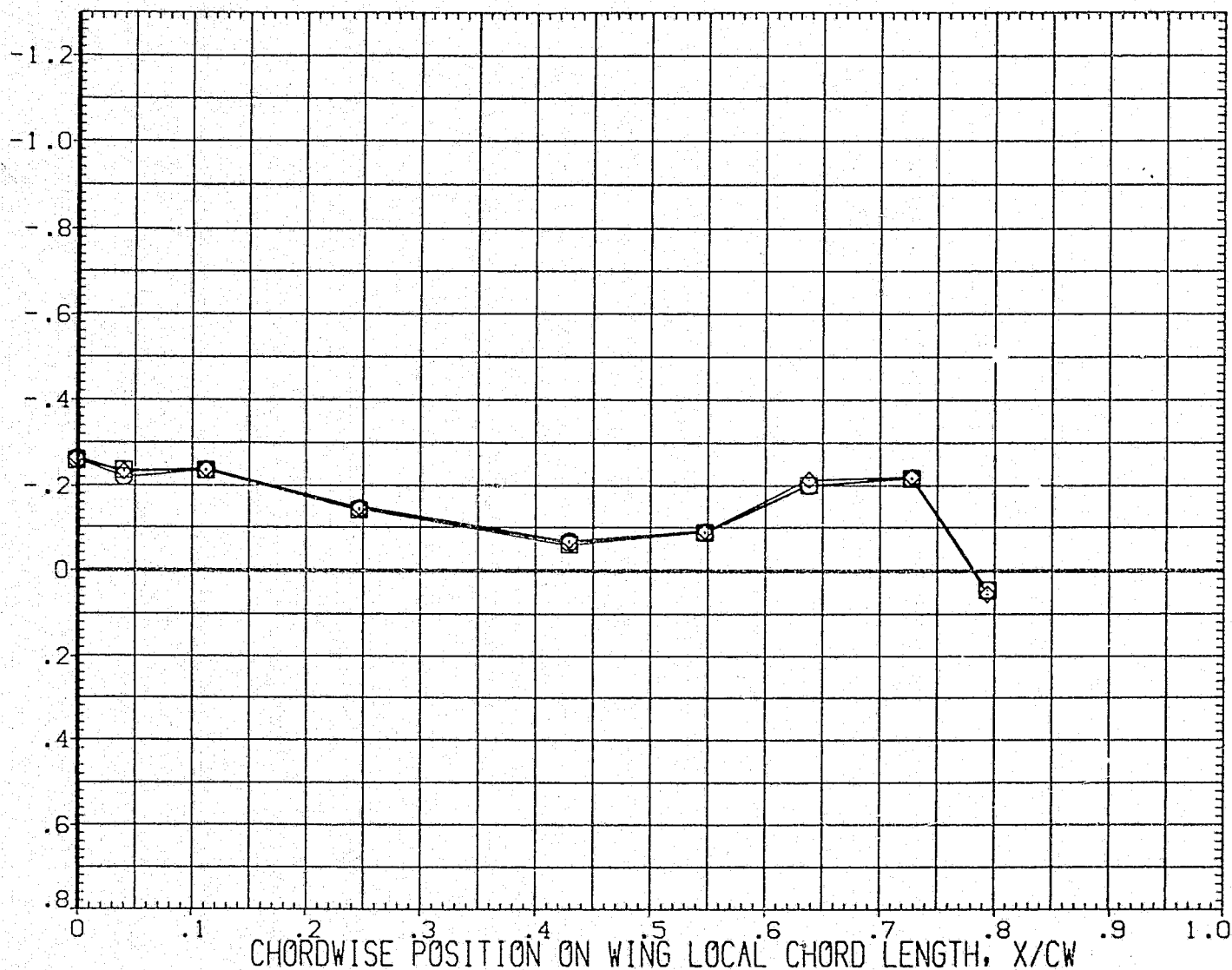


FIG. 85 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.4

ALPHA0= .000 BETA0 = .000 Y/BW = .235

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(IETU20)	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING TOP	1.400	.000	2.250	.000
(IETU12)	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING TOP	1.400	8.000	2.250	.000
(IETU14)	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING TOP	1.400	8.000	2.250	-4.000
(IETL20)	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	.000	2.250	.000
(IETL12)	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	8.000	2.250	.000
(IETL14)	ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	8.000	2.250	-4.000

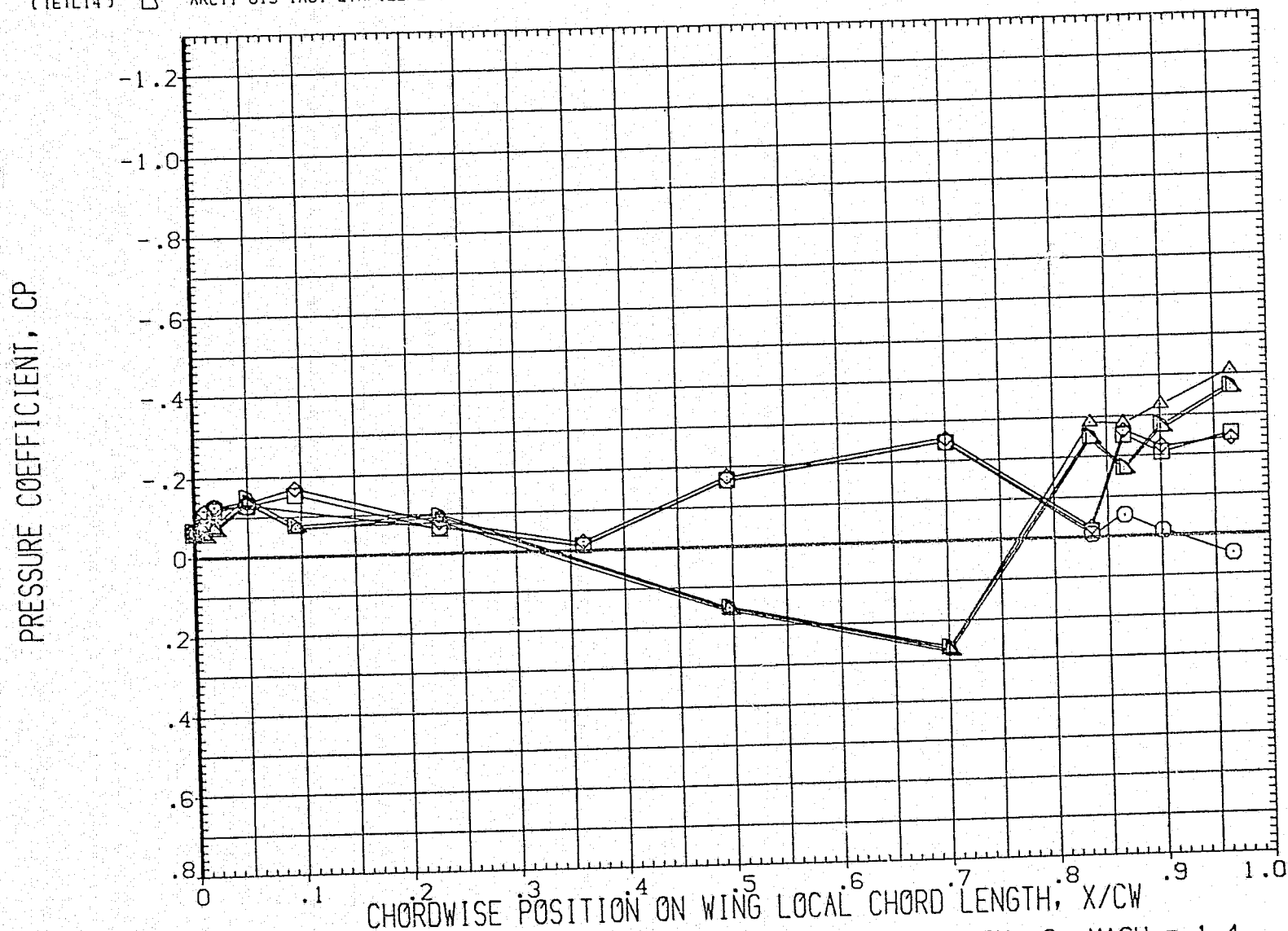


FIG. 85 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.4

ALPHA0= .000 BETA0 = .000 Y/BW = .299

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-18	RN/FT	ELV-08
(IETU20)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	.000	2.250	.000
(IETU12)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	8.000	2.250	.000
(IETU14)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	8.000	2.250	-4.000
(IETL20)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	.000	2.250	.000
(IETL12)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	8.000	2.250	.000
(IETL14)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	8.000	2.250	-4.000

PRESSURE COEFFICIENT, CP

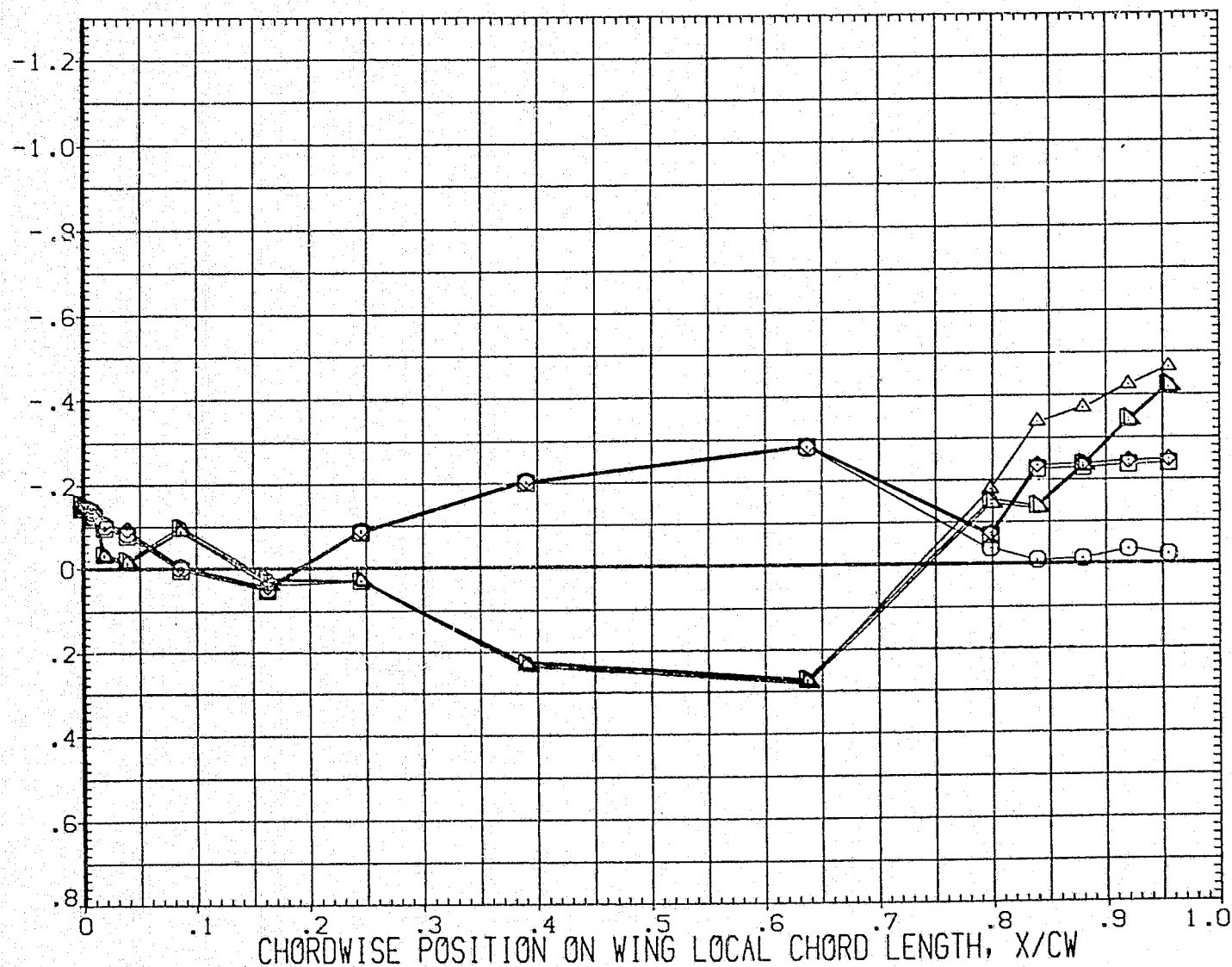


FIG. 85 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.4

ALPHA0= .000 BETA0 = .000 Y/BW = .364

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(IETU20)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	.000	2.250	.000
(IETU12)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	8.000	2.250	.000
(IETU14)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	8.000	2.250	-4.000
(IETL20)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	.000	2.250	.000
(IETL12)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	8.000	2.250	.000
(IETL14)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	8.000	2.250	-4.000

PRESSURE COEFFICIENT, CP

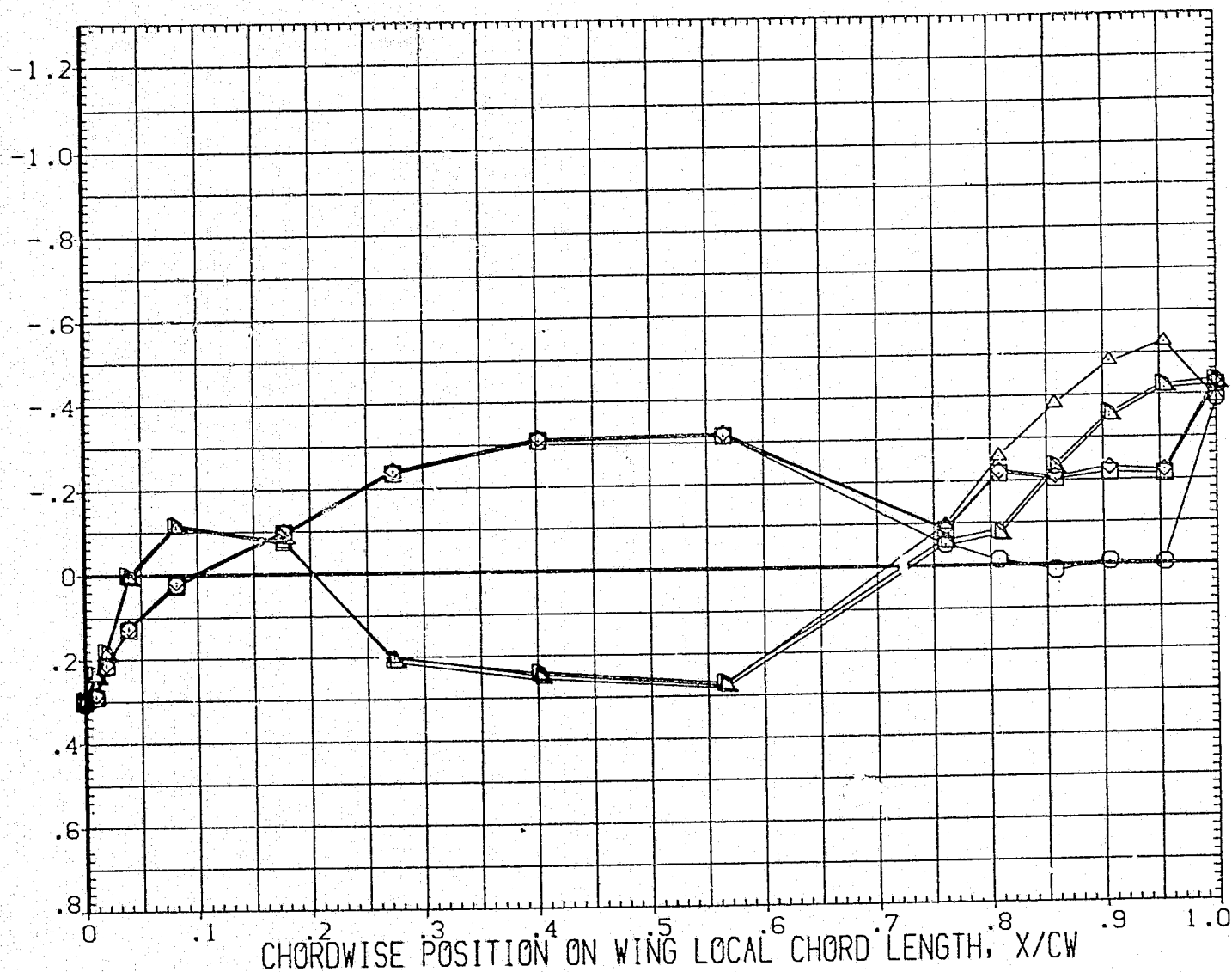


FIG. 85 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.4

ALPHA0= .000 BETA0 = .000 Y/BW = .427

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(IETU20)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	.000	2.250	.000
(IETU12)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	8.000	2.250	.000
(IETU14)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	9.000	2.250	-4.000
(IETL20)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	.000	2.250	.000
(IETL12)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	8.000	2.250	.000
(IETL14)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	8.000	2.250	-4.000

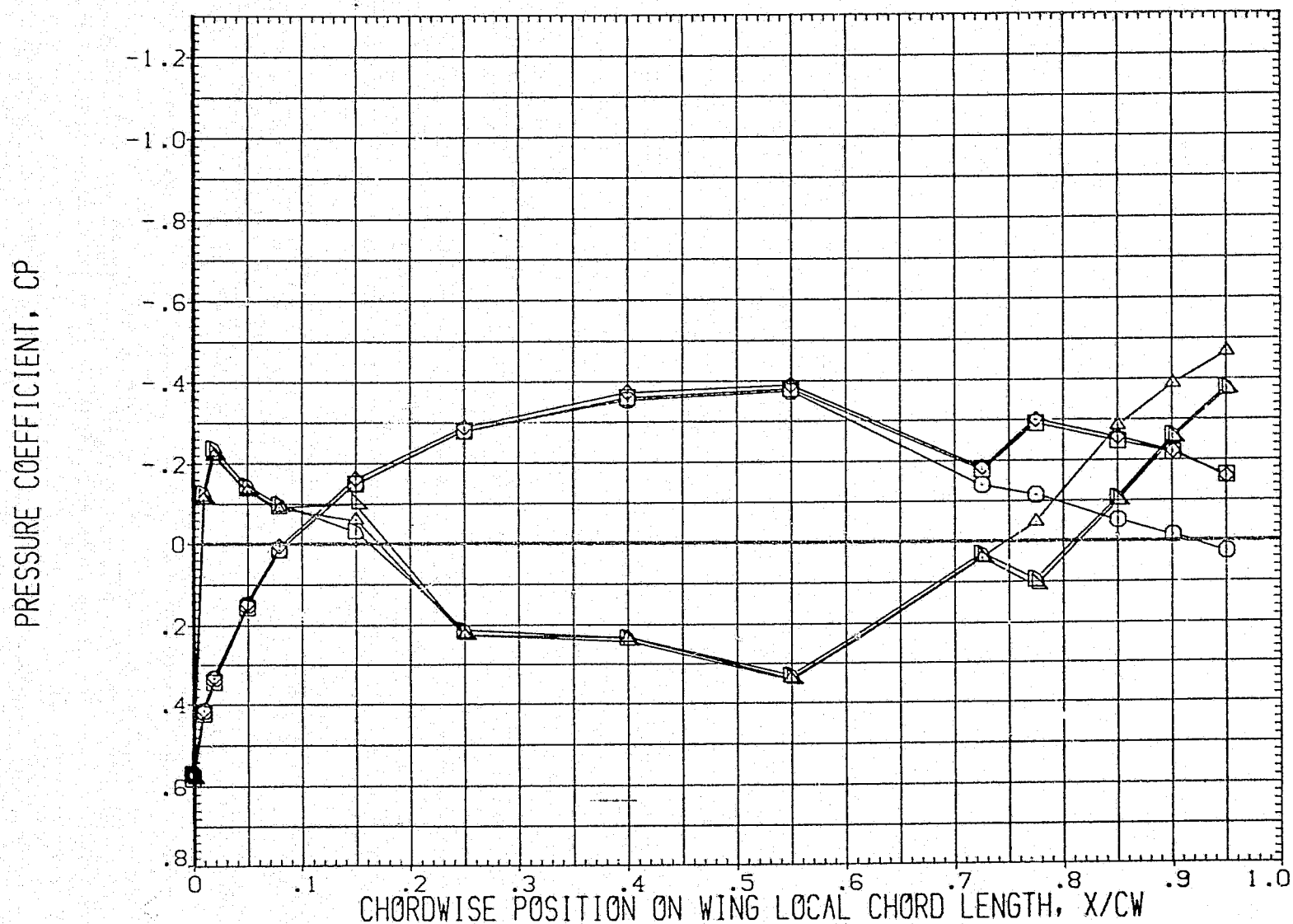


FIG. 85 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.4

ALPHA0= .000 BFTA0 = .000 Y/BW = .534

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-18	RN/FT	ELV-08
(IETU20)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	.000	2.250	.000
(IETU12)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	8.000	2.250	.000
(IETU14)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	8.000	2.250	-4.000
(IETL20)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	.000	2.250	.000
(IETL12)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	8.000	2.250	.000
(IETL14)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	8.000	2.250	-4.000

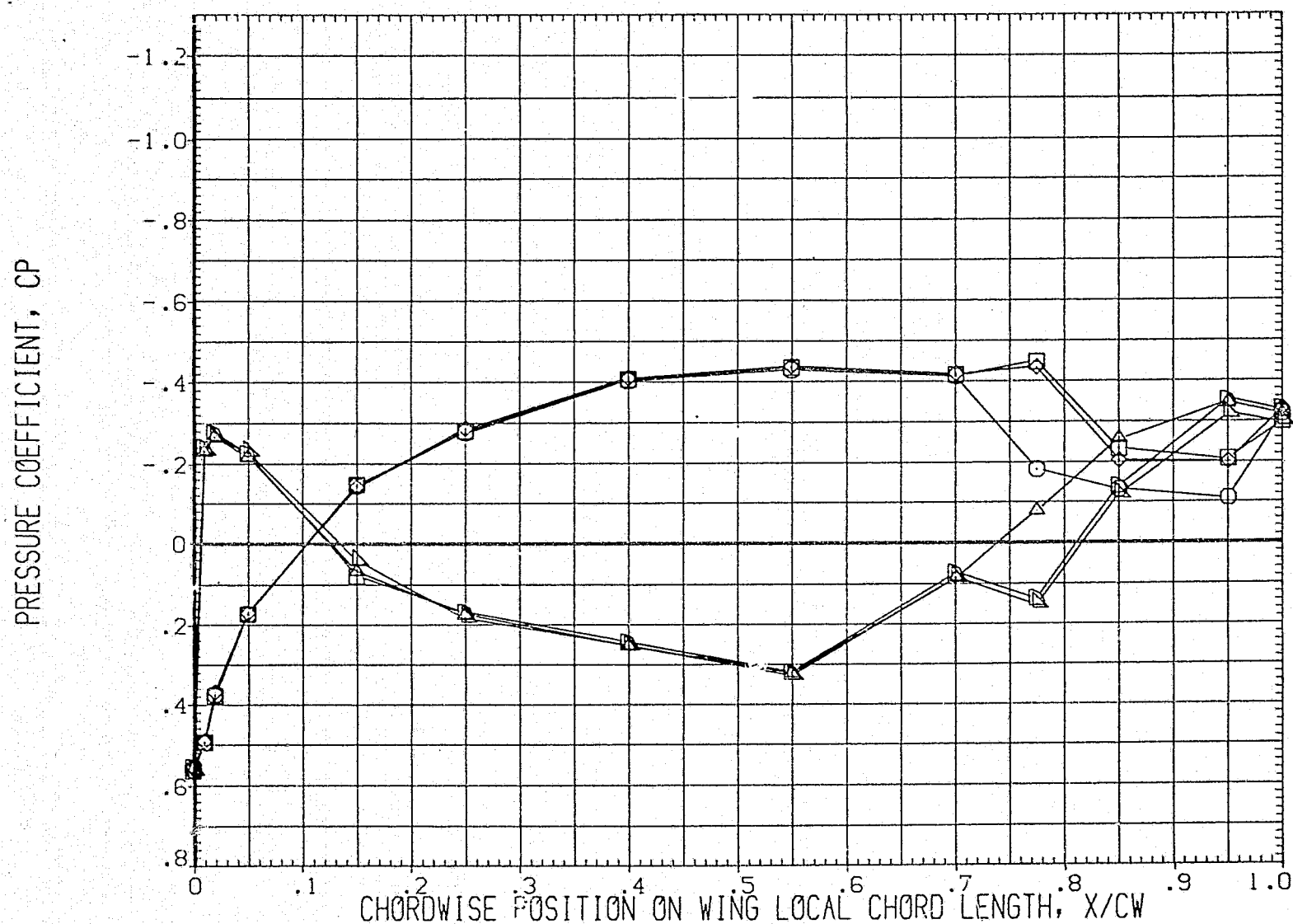


FIG. 85 WING CHORDWISE PRESS. DIST., ELEVON EFFECT. SPDBRK= 0. MACH = 1.4

ALPHA0= .000 BETA0 = .000 Y/BW = .673

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(IETU20)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	.000	2.250	.000
(IETU12)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	8.000	2.250	.000
(IETU14)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	8.000	2.250	-4.000
(IETL20)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	.000	2.250	.000
(IETL12)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	8.000	2.250	.000
(IETL14)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	8.000	2.250	-4.000

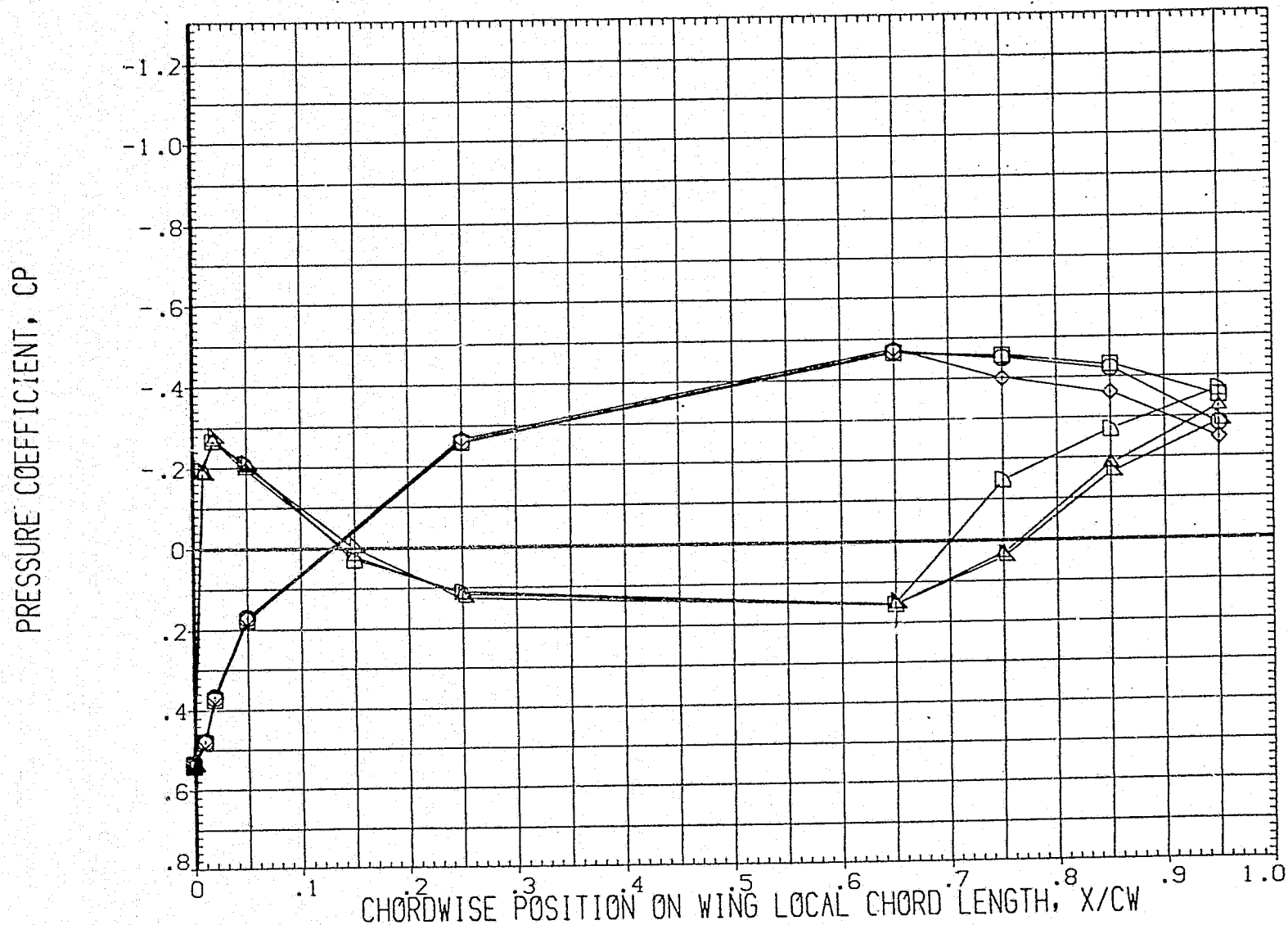


FIG. 85 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.4

ALPHA0= .000 BETA0 = .000 Y/BW = .780

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-IB	RN/FT	ELV-OB
(IETU20)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	.000	2.250	.000
(IETU12)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	8.000	2.250	.000
(IETU14)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	8.000	2.250	-4.000
(IETL20)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	.000	2.250	.000
(IETL12)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	8.000	2.250	.000
(IETL14)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	8.000	2.250	-4.000

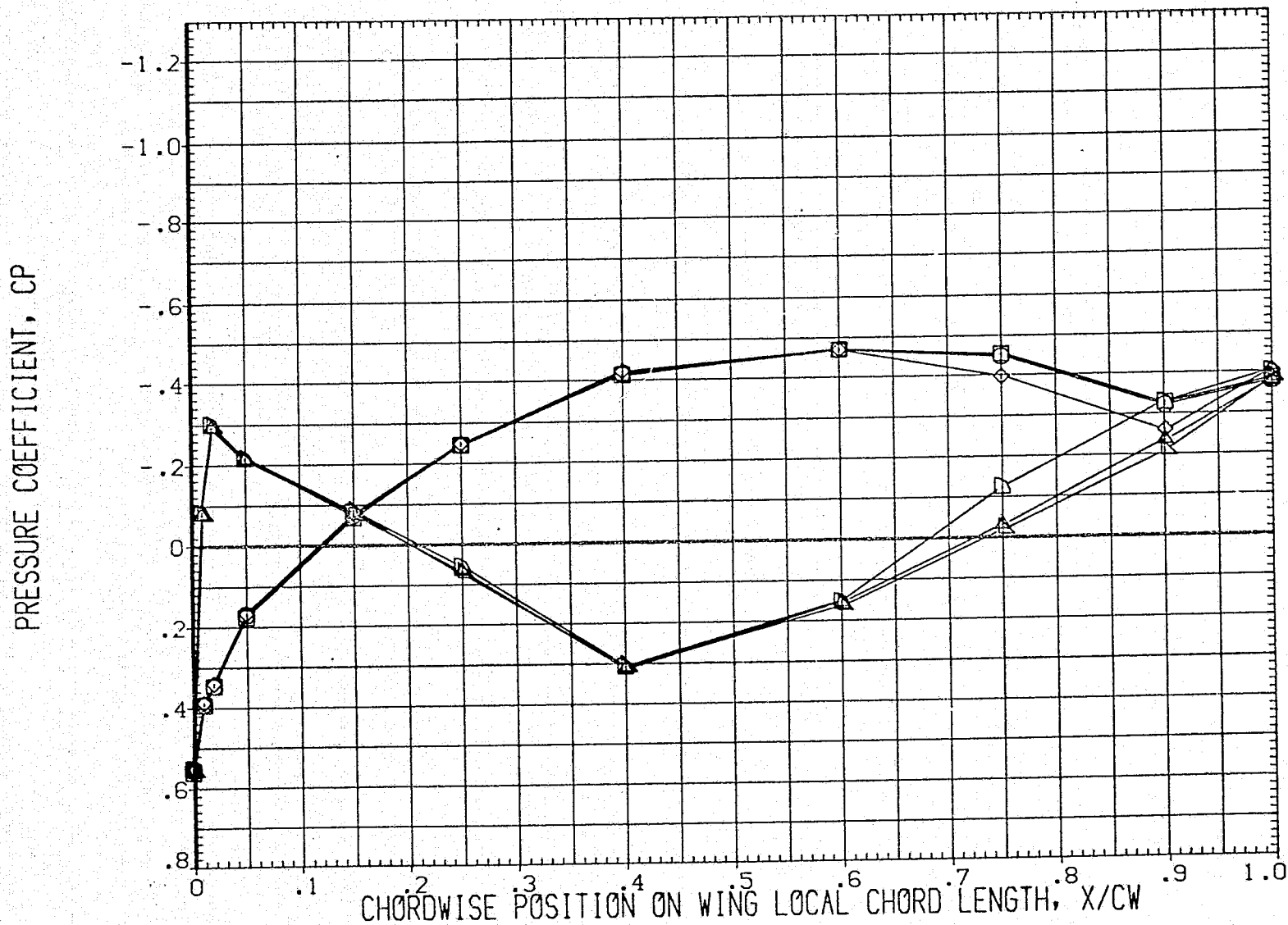


FIG. 85 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.4

ALPHA0= .000 BETA0 = .000 Y/BW = .887

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-IB	RN/FT	ELV-OB
(1ETU20)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	.000	2.250	.000
(1ETU12)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	8.000	2.250	.000
(1ETU14)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	8.000	2.250	-4.000
(1ETL20)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	.000	2.250	.000
(1ETL12)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	8.000	2.250	.000
(1ETL14)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	8.000	2.250	-4.000

PRESSURE COEFFICIENT, CP

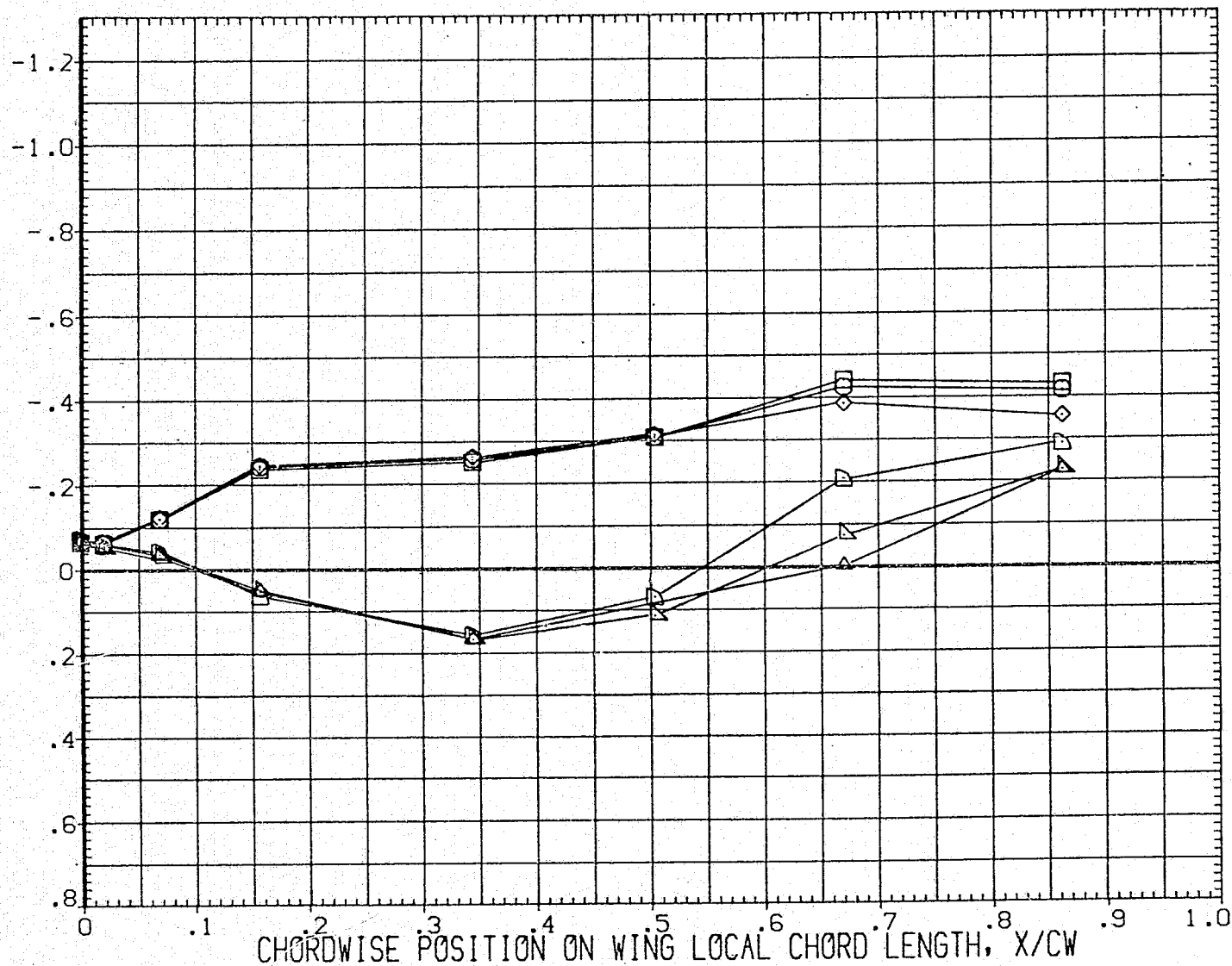


FIG. 85 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.4
 ALPHA0= .000 BETA0 = .000 Y/BW = .972 PAGE 1448

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(IETU20) DATA NOT AVAILABLE
 (IETU12) ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING TOP
 (IETU14) ARC11-019 IAB1 LVAP(ELHL SEALED) LEFT WING TOP
 (IETL20) DATA NOT AVAILABLE
 (IETL12) DATA NOT AVAILABLE
 (IETL14) DATA NOT AVAILABLE

MACH	ELV-1B	RN/FT	ELV-0B
1.400	.000	2.250	.000
1.400	8.000	2.250	.000
1.400	8.000	2.250	-4.000
1.400	.000	2.250	.000
1.400	8.000	2.250	.000
1.400	8.000	2.250	-4.000

PRESSURE COEFFICIENT, CP

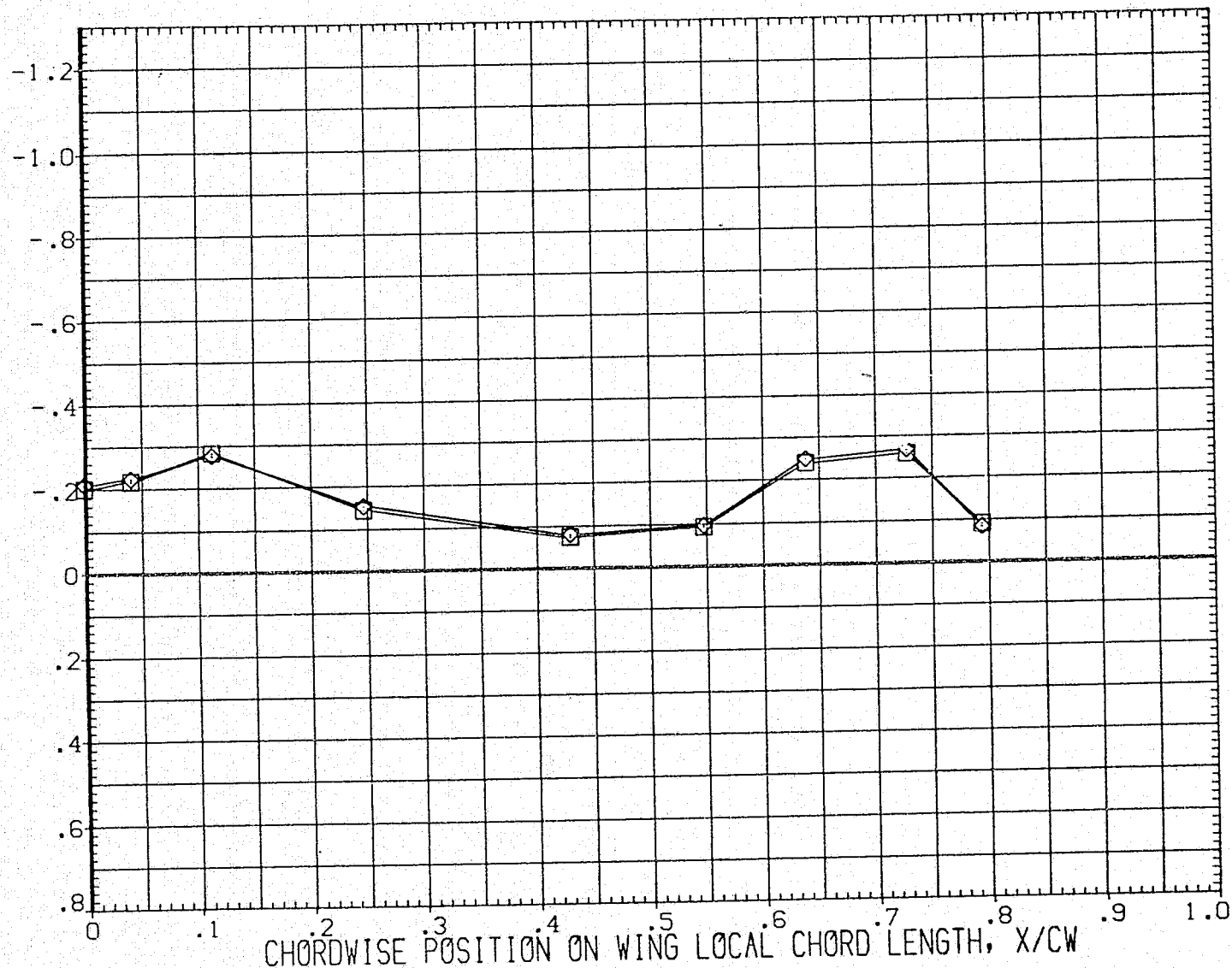


FIG. 85 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.4

ALPHA0= -4.000 BETA0 = .000 Y/BW = .235

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(IETU20)	DATA NOT AVAILABLE	1.400	.000	2.250	.000
(IETU12)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	8.000	2.250	.000
(IETU14)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	8.000	2.250	-4.000
(IETL20)	DATA NOT AVAILABLE	1.400	.000	2.250	.000
(IETL12)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	8.000	2.250	.000
(IETL14)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	8.000	2.250	-4.000

PRESSURE COEFFICIENT, CP

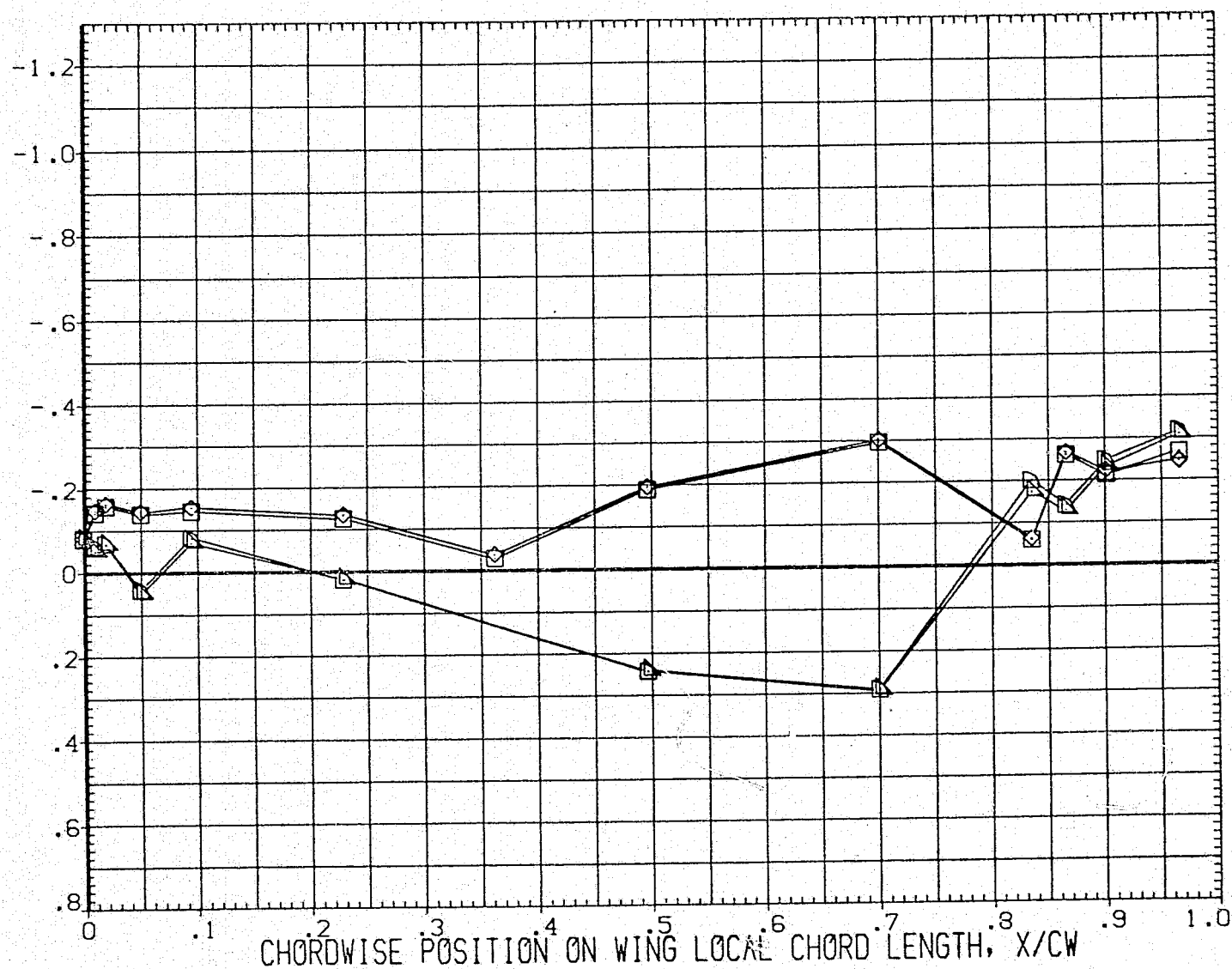


FIG. 85 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.4

ALPHA0= 4.000 BETA0 = .000 Y/BW = .299

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DATA SET SYMBOL CONFIGURATION DESCRIPTION

(IETU20)	DATA NOT AVAILABLE		
(IETU12)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP		
(IETU14)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP		
(IETL20)	DATA NOT AVAILABLE		
(IETL12)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.		
(IETL14)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.		

MACH	ELV-1B	RN/FT	ELV-0B
1.400	.000	2.250	.000
1.400	8.000	2.250	.000
1.400	8.000	2.250	-4.000
1.400	.000	2.250	.000
1.400	8.000	2.250	.000
1.400	8.000	2.250	-4.000

PRESSURE COEFFICIENT, CP

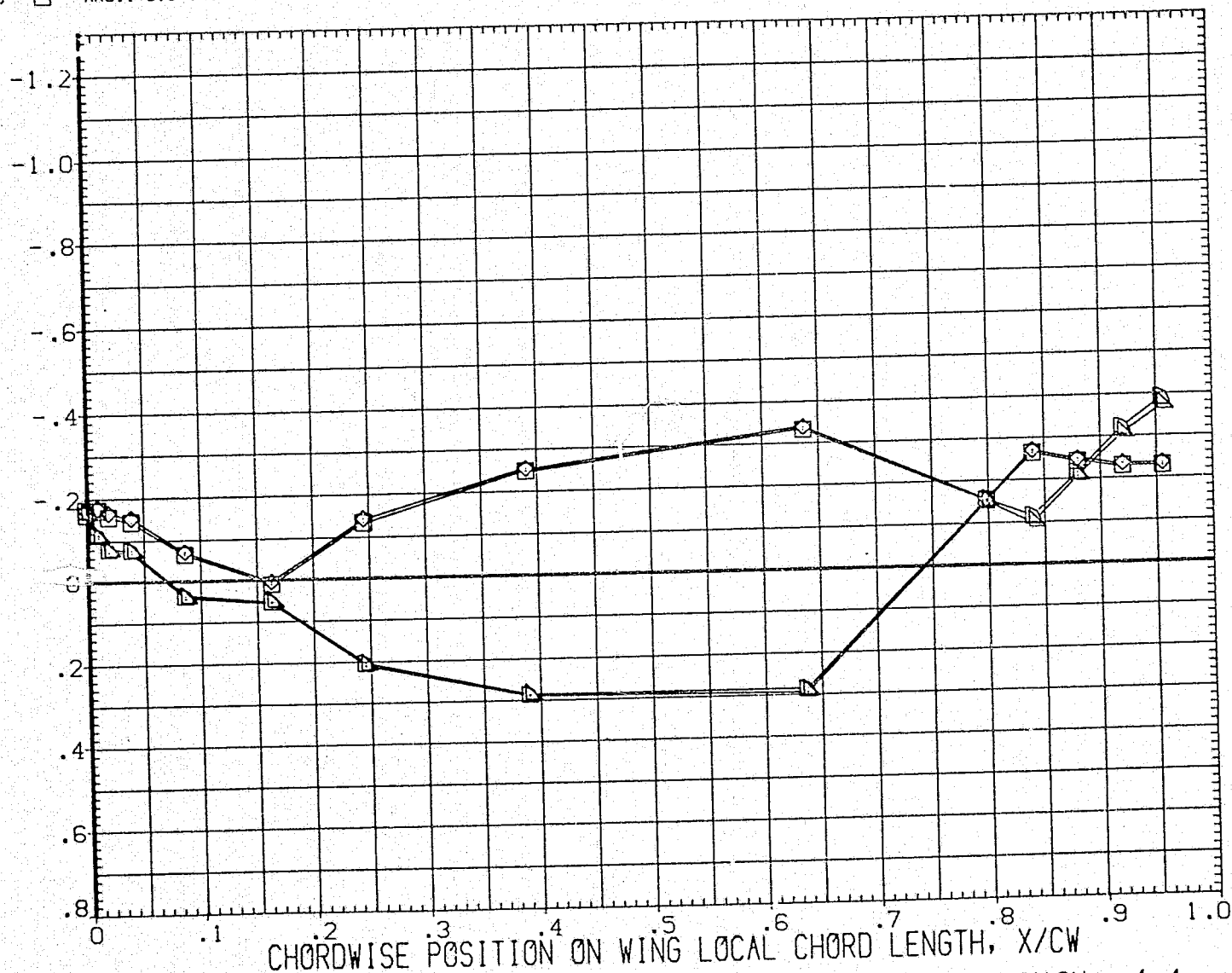


FIG. 85 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.4

ALPHA0= 4.000 BETA0 = .000 Y/BW = .364

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(IETU20)	DATA NOT AVAILABLE	1.400	.000	2.250	.000
(IETU12)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	8.000	2.250	.000
(IETU14)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	8.000	2.250	-4.000
(IETL20)	DATA NOT AVAILABLE	1.400	.000	2.250	.000
(IETL12)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	8.000	2.250	.000
(IETL14)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	8.000	2.250	-4.000



FIG. 85 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.4
 ALPHA0= 4.000 BETA0 = .000 Y/BW = .427

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-IB	RN/FT	ELV-OB
(IETU20)	DATA NOT AVAILABLE	1.400	.000	2.250	.000
(IETU12)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	8.000	2.250	.000
(IETU14)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	8.000	2.250	-4.000
(IETL20)	DATA NOT AVAILABLE	1.400	.000	2.250	.000
(IETL12)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	8.000	2.250	.000
(IETL14)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	8.000	2.250	-4.000

PRESSURE COEFFICIENT, CP

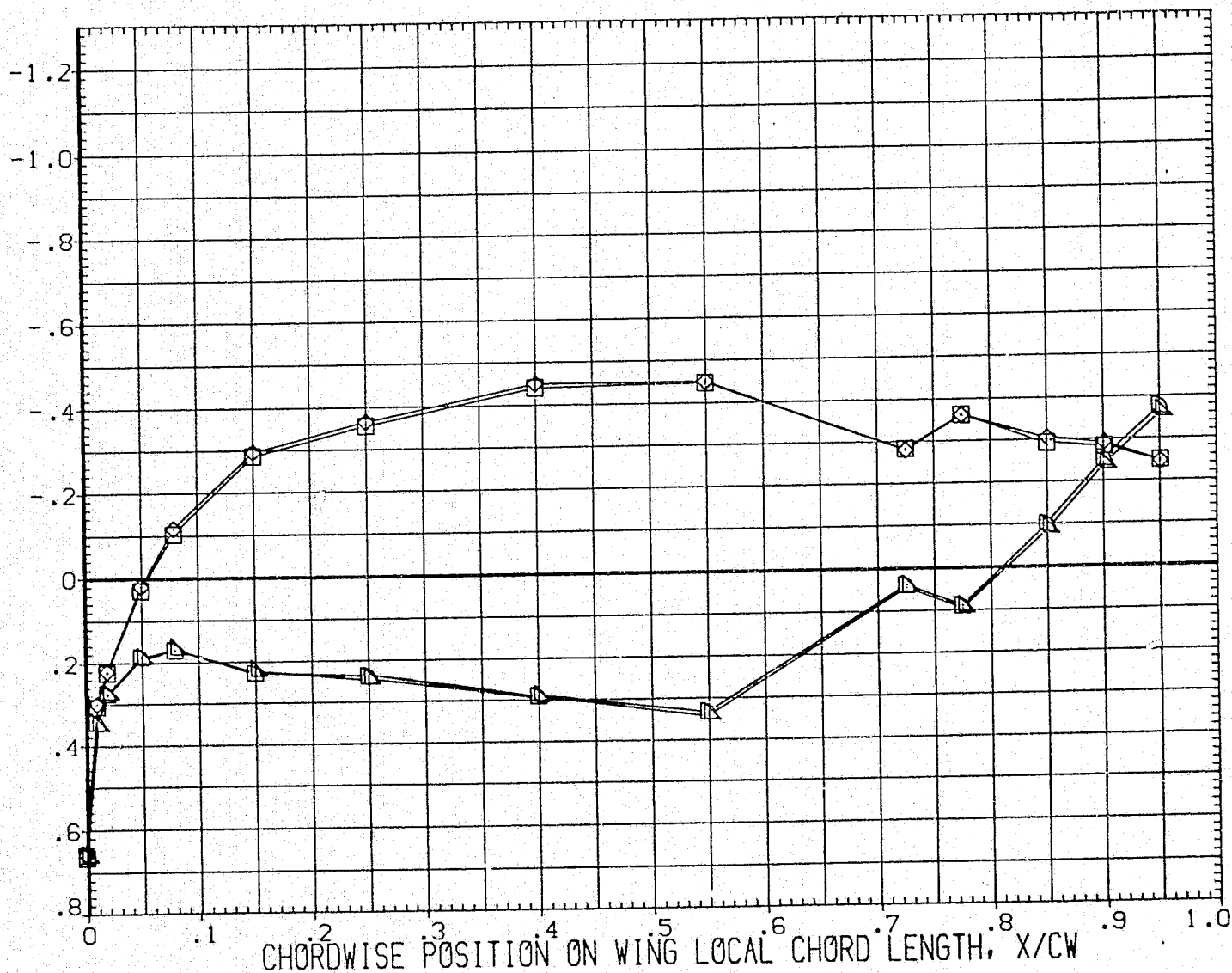


FIG. 85 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.4

ALPHA0= 4.000 BETA0 = .000 Y/BW = .534

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(IETU20)	DATA NOT AVAILABLE	1.400	.000	2.250	.000
(IETU12)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	8.000	2.250	.000
(IETU14)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	8.000	2.250	-4.000
(IETL20)	DATA NOT AVAILABLE	1.400	.000	2.250	.000
(IETL12)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	8.000	2.250	.000
(IETL14)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	8.000	2.250	-4.000

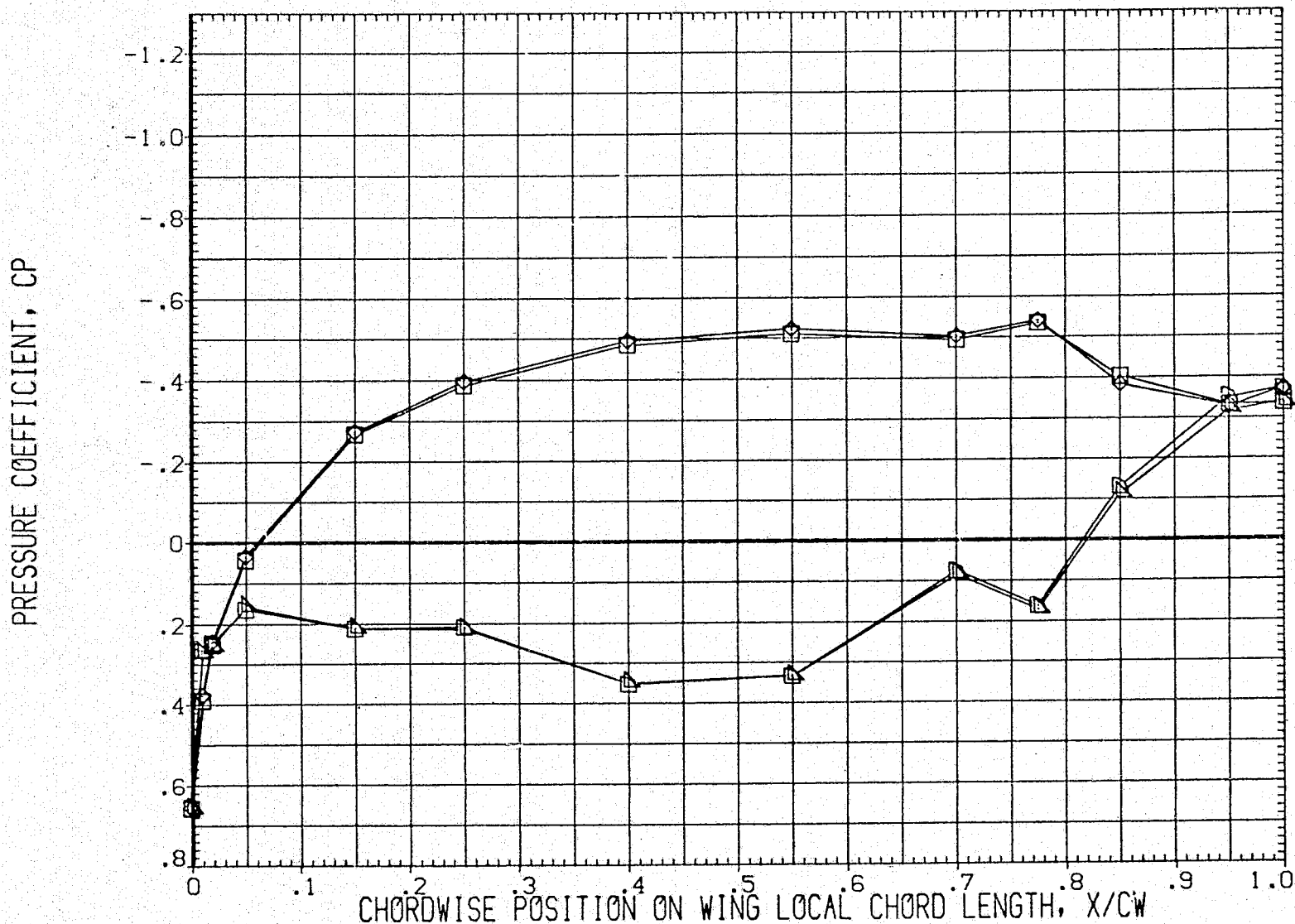


FIG. 85 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.4

ALPHA0= 4.000 BETA0 = .000 Y/BW = .673

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-1B	RN/FT	ELV-0B
(IETU20)	DATA NOT AVAILABLE	1.400	.000	2.250	.000
(IETU12)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	8.000	2.250	.000
(IETU14)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	8.000	2.250	-4.000
(IETL20)	DATA NOT AVAILABLE	1.400	.000	2.250	.000
(IETL12)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	8.000	2.250	.000
(IETL14)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	8.000	2.250	-4.000

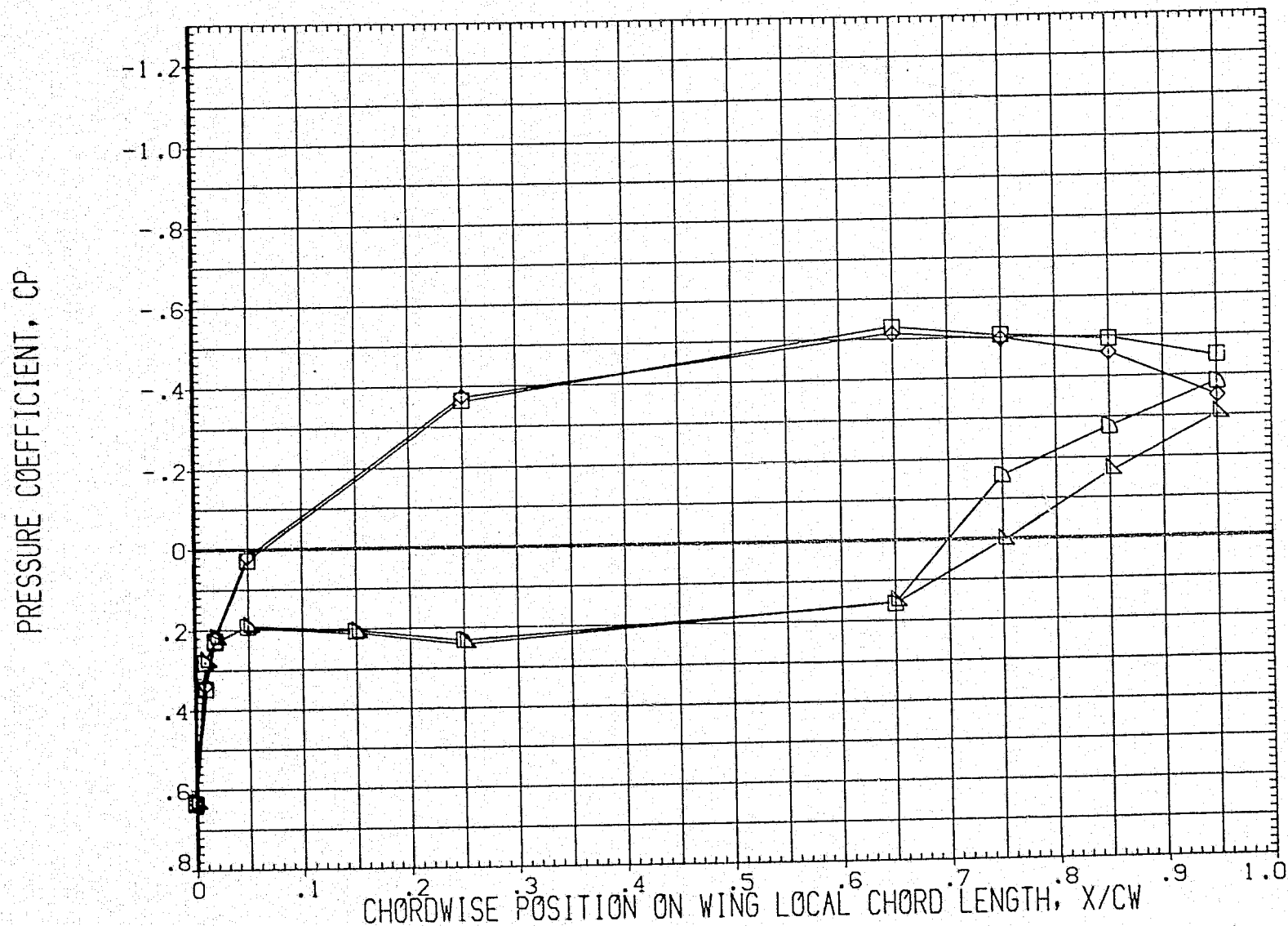


FIG. 85 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.4

ALPHA0= 4.000 BETA0 = .000 Y/BW = .780

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-IB	RN/FT	ELV-OB
(IETU20)	DATA NOT AVAILABLE	1.400	.000	2.250	.000
(IETU12)	ARC11-019 IA81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	8.000	2.250	.000
(IETU14)	ARC11-019 IA81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	8.000	2.250	-4.000
(IETL20)	DATA NOT AVAILABLE	1.400	.000	2.250	.000
(IETL12)	ARC11-019 IA81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	8.000	2.250	.000
(IETL14)	ARC11-019 IA81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	8.000	2.250	-4.000

PRESSURE COEFFICIENT, CP

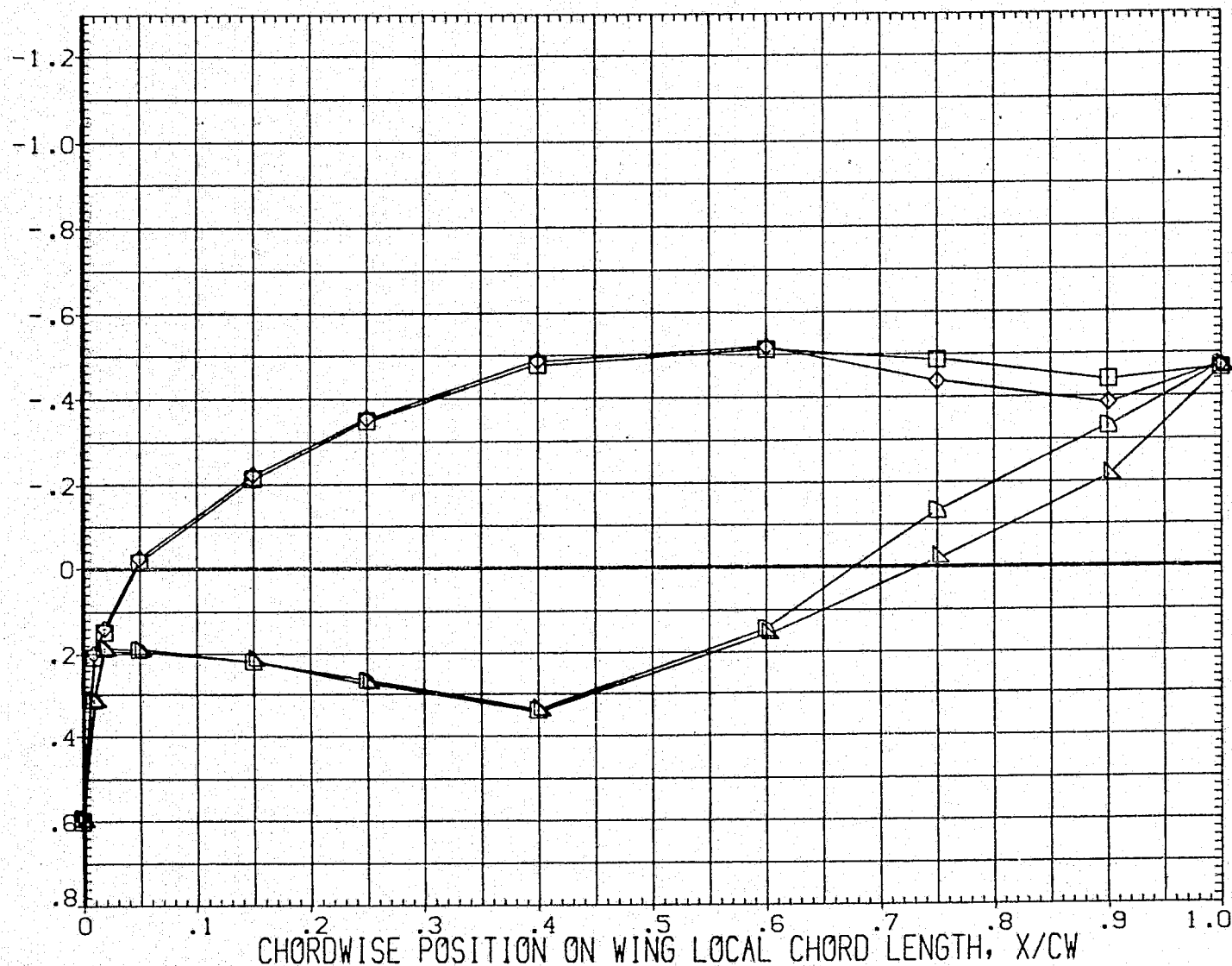


FIG. 85 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0, MACH = 1.4

ALPHA0= 4.000 BETA0 = .000 Y/BW = .887

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELV-18	RN/FT	ELV-08
(IETU20)	DATA NOT AVAILABLE	1.400	.000	2.250	.000
(IETU12)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	8.000	2.250	.000
(IETU14)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING TOP	1.400	8.000	2.250	-4.000
(IETL20)	DATA NOT AVAILABLE	1.400	.000	2.250	.000
(IETL12)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	8.000	2.250	.000
(IETL14)	ARC11-019 1A81 LVAP(ELHL SEALED) LEFT WING BOT.	1.400	8.000	2.250	-4.000

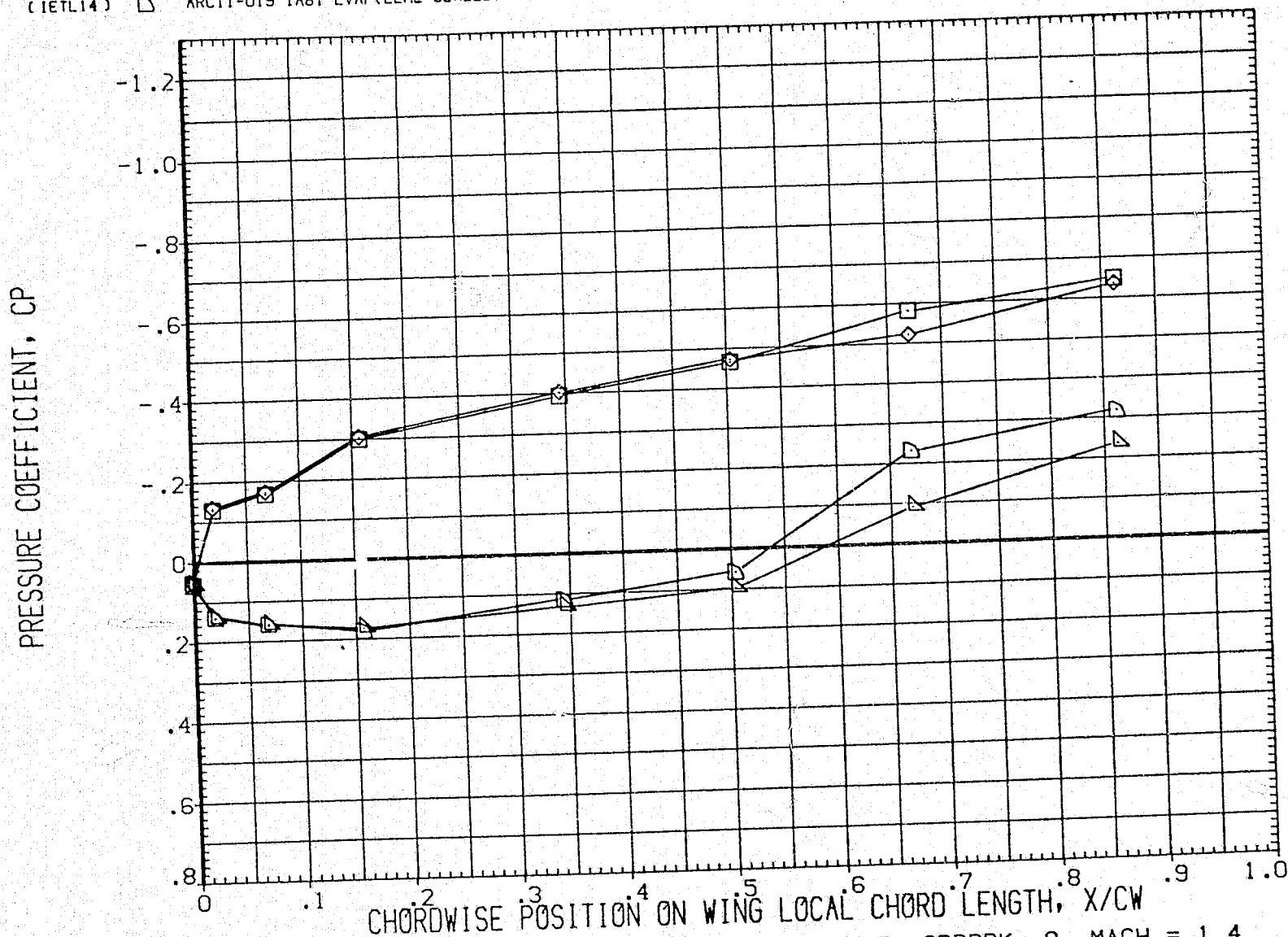


FIG. 85 WING CHORDWISE PRESS. DIST., ELEVON EFFECT, SPDBRK= 0. MACH = 1.4
 ALPHA0= 4.000 BETA0 = .000 Y/BW = .972

APPENDIX

TABULATED SOURCE DATA

Tabulations of plotted data are available on request from
Data Management Services

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DATE 17-OCT 75

IABIA - FORCE SOURCE DATA TABULATION

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AMES11-019(IAB1) LVAP ORBITER-SPOBRK HL UNSEAL

(RET001) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 IN. YMRP = .0000 IN. YT
BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
SCALE = .0300

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000
RUDDER = .000 SPOBRK = 55.000
MACH = 1.100 RN/L = 3.000

RUN NO. 1/ 0 RN/L = 2.99 GRADIENT INTERVAL = -5.00/ 5.00

BETA0	ALPHA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
.005	-6.286	-.19069	.18872	.17250	-.00570	.00480	-.00180	.04742	.12508
-.006	-4.148	-.12768	.14723	.17010	-.00510	.00420	-.00070	.04432	.12578
-.021	-2.025	-.05160	.09422	.16780	-.01350	.01040	-.00240	.04482	.12298
-.030	.092	.04101	.02660	.16700	-.00960	.00730	-.00160	.04371	.12329
-.026	2.226	.14070	-.04753	.16510	-.01340	.01020	-.00300	.04572	.11938
-.018	4.337	.22507	-.10850	.16060	-.01090	.00830	-.00210	.04462	.11598
-.001	6.460	.29608	-.16055	.15770	-.01060	.00820	-.00240	.04402	.11368
.009	8.583	.35422	-.20210	.15520	-.00690	.00550	-.00130	.04632	.10888
GRADIENT		.04231	-.03078	-.00102	-.00054	.00038	-.00016	.00007	-.00109

AMES11-019(IAB1) LVAP ORBITER-SPOBRK HL SEALED

(RET002) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 IN. YMRP = .0000 IN. YT
BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
SCALE = .0300

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000
RUDDER = .000 SPOBRK = 55.000
MACH = .600 RN/L = 3.200

RUN NO. 2/ 0 RN/L = 3.24 GRADIENT INTERVAL = -5.00/ 5.00

BETA0	ALPHA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-.006	-6.155	-.22462	.18478	.09190	.00570	-.00380	.00140	.03228	.05962
-.020	-4.065	-.16633	.14606	.09190	.00620	-.00430	.00190	.03088	.06102
-.028	-1.995	-.10340	.10394	.09100	.00540	-.00380	.00170	.03048	.06052
-.031	.078	-.03994	.06158	.08900	.00490	-.00340	.00140	.03048	.05852
-.032	2.167	.01956	.02285	.08390	.00540	-.00390	.00140	.02757	.05633
-.026	4.242	.08584	-.02245	.07800	.00200	-.00140	.00040	.02727	.05073
-.007	6.338	.15789	-.07172	.07080	-.02180	.01660	-.00560	.02547	.04533
GRADIENT		.03019	-.02012	-.00168	-.00040	.00027	-.00016	-.00049	-.00119

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AMES11-019(IAB1) LVAP ORBITER-SPDBRK HL SEALED

(RET003) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000
 RUDDER = .000 SPDBRK = 55.000
 MACH = .900 RN/L = 3.500

RUN NO. 3/ 0 RN/L = 3.51 GRADIENT INTERVAL = -5.00/ 5.00

BETA0	ALPHA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
.027	-6.277	-.17882	.16000	.12210	-.00460	.00390	-.00190	.04191	.08019
.004	-4.157	-.12715	.12337	.12110	-.01200	.00960	-.00300	.04291	.07819
-.020	-2.045	-.05991	.07793	.11770	-.00450	.00370	-.00090	.04141	.07629
-.030	.070	.01883	.02601	.11460	-.00780	.00610	-.00170	.03830	.07630
-.035	2.209	.09427	-.02529	.11080	-.00340	.00270	-.00150	.03740	.07340
-.028	4.323	.15771	-.06783	.10650	-.00920	.00710	-.00280	.03479	.07171
.066	6.247	-.02013	.01214	.00000	.00000	.00000	.00000	.03168	-.03168
GRADIENT		.03412	-.02289	-.00170	.00032	-.00028	-.00001	-.00095	-.00075

AMES11-019(IAB1) LVAP ORBITER ELVN-L HL UNSEAL

(RET006) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 8.000 ELV-0B = 4.000
 RUDDER = .000 SPDBRK = .000
 MACH = .600 RN/L = 2.250

RUN NO. 11/ 0 RN/L = 2.24 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-6.048	-.007	-.08057	.05585	.06470	-.00030	.00100	.00110	.02807	.03663
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 10/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-4.013	-4.061	-.00299	.00166	.06840	.08280	-.05440	.02840	.02958	.03882
-3.984	.011	-.02344	.01742	.06520	-.00400	.00350	.00000	.02807	.03713
-3.968	4.081	-.01956	.01189	.06670	-.09530	.06470	-.02970	.02938	.03732
GRADIENT		-.00204	.00126	-.00021	-.02187	.01463	-.00714	-.00002	-.00018

AMES11-019(1A81) LVAP ORBITER ELVN-L HL UNSEAL

(RETO06) (14 OCT 75)

REFERENCE DATA

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SREF = 2690.0000 SQ.FT.  XMRP = 976.0000 IN. XT
LREF = 1297.0000 IN.      YMRP = .0000 IN. YT
BREF = 1297.0000 IN.      ZMRP = 400.0000 IN. ZT
SCALE = .0300

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PARAMETRIC DATA

ELV-18	=	8.000	ELV-08	=	4.000
RUDDER	=	.000	SPDBRK	=	.000
MACH	=	.600	RN/L	=	2.250

RUN NO. 6/0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
.074	-6.097	.13509	-.09344	.06180	.11380	-.07630	.04270	.02968	.03212
.072	-4.067	.12301	-.08285	.06330	.07630	-.05090	.02880	.02817	.03513
.076	-.005	.09852	-.06385	.06180	-.00130	.00150	.00040	.02737	.03443
.087	4.063	.10484	-.07209	.06320	-.08290	.05680	-.02800	.02968	.03352
.090	6.100	.10871	-.07716	.06060	-.12430	.08480	-.04200	.02968	.03092
	GRADIENT	-.00223	.00132	-.00001	-.01958	.01325	-.00699	.00019	-.00020

RUN NO. 7/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
4.240	-4.061	.25497	-.17348	.05420	.06040	-.03990	.02500	.02918	.02502
4.239	-.008	.22754	-.15074	.05130	-.00390	.00310	-.00060	.02537	.02593
4.236	4.070	.23492	-.16013	.05260	-.07060	.04820	.02650	.02687	.02573
	GRADIENT	-.00246	.00164	-.00020	-.01611	.01084	-.00633	-.00028	.00009

RUN NO. 8/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

RUN NO. 9/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

DATE 17 OCT 75

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AHES11-019(1A81) LVAP ORBITER ELVN-L HL UNSEAL

(RET007) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = 4.000
 RUDDER = .000 SPDGRK = .000
 MACH = .900 RN/L = 2.250

RUN NO. 18/ 0 RN/L = 2.23 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-11.207	-4.037	-.06162	.04868	.11720	.09730	-.06460	.03300	.04051	.07669
-8.684	-2.018	-.07667	.05849	.10520	.04630	-.03030	.01650	.03800	.06720
-6.128	.034	-.09175	.06701	.09460	-.00230	.00160	.00030	.04051	.05409
-6.115	2.098	-.08696	.06326	.09490	-.04950	.03230	-.01520	.03960	.05530
-6.107	4.143	-.07896	.05427	.09700	-.10360	.06870	-.03210	.04181	.05519
GRADIENT		-.00219	.00077	-.00247	-.02430	.01608	-.00791	.00021	-.00268

RUN NO. 17/ 0 RN/L = 2.23 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-4.084	-6.127	.02182	-.01404	.09490	.13800	-.09220	.04640	.03930	.05560
-4.075	-4.085	.01051	-.00466	.09780	.09100	-.06050	.03250	.03830	.05950
-4.057	.023	-.02126	.01828	.09300	-.00220	.00160	.00020	.03990	.05310
-4.038	4.117	-.00539	.00376	.09240	-.09800	.06570	-.03170	.03860	.05380
-4.037	6.169	-.00567	.00132	.09250	-.14940	.10050	-.04850	.04091	.05159
GRADIENT		-.00194	.00103	-.00066	-.02304	.01539	-.00783	.00004	-.00070

RUN NO. 16/ 0 RN/L = 2.23 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-2.013	-6.133	.09362	-.06258	.08980	.13030	-.08820	.04740	.03529	.05451
-2.004	-2.060	.06773	-.04313	.09190	.04280	-.02850	.01630	.03579	.05611
-1.969	2.058	.05898	-.03741	.09150	-.04290	.02830	-.01530	.03860	.05290
-1.958	6.150	.06814	-.04757	.09020	-.13930	.09400	-.04770	.03820	.05200
GRADIENT		-.00213	.00139	-.00010	-.02081	.01379	-.00767	.00068	-.00078

RUN NO. 12/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
.059	-6.145	.16760	-.11261	.08760	.12680	-.08710	.04780	.03660	.05100
.063	-4.101	.15966	-.10650	.08960	.08490	-.05810	.03230	.03599	.05361
.066	-.005	.12660	-.08236	.08540	.00220	-.00170	.00060	.03580	.04860
.078	4.088	.13944	-.09459	.08720	-.08120	.05450	-.03030	.03750	.04970
.082	6.135	.13884	-.09529	.08780	-.12830	.08720	-.04600	.03830	.04950
GRADIENT		-.00247	.00146	-.00029	-.02028	.01375	-.00764	.00018	-.00048

DATE 17 OCT 75

IABIA - FORCE SOURCE DATA TABULATION

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AMES11-019(IAB1) LVAP ORBITER ELVN-L HL UNSEAL

(RETO07) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 978.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = 4.000
 RUDDER = .000 SPOBRK = .000
 MACH = .900 RN/L = 2.250

RUN NO. 13/ 0 RN/L = 2.24 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
2.177	-6.133	.23761	-.16023	.08580	.11630	-.08020	.04460	.03589	.04991
2.184	-2.056	.21300	-.14070	.08590	.03870	-.02670	.01540	.03509	.05081
2.185	2.047	.19591	-.12798	.08400	-.03840	.02580	-.01370	.03459	.04941
2.186	6.135	.20340	-.13871	.08470	-.12440	.08530	-.04460	.03700	.04770
	GRADIENT	-.00417	.00310	-.00046	-.01879	.01280	-.00709	-.00012	-.00034

RUN NO. 14/ 0 RN/L = 2.24 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
4.257	-6.123	.30343	-.20603	.08520	.10780	-.07330	.04210	.03660	.04860
4.260	-4.081	.29455	-.19890	.08530	.07290	-.04990	.02850	.03489	.05041
4.257	-.003	.25435	-.16720	.08180	.00070	-.00090	.00140	.03489	.04691
4.257	4.093	.27114	-.18335	.08130	-.07540	.05120	-.02750	.03399	.04731
4.251	6.145	.26536	-.18131	.08260	-.11600	.07880	-.04100	.03640	.04620
	GRADIENT	-.00286	.00190	-.00049	-.01814	.01237	-.00685	-.00011	-.00038

RUN NO. 15/ 0 RN/L = 2.23 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
6.353	-4.069	.35946	-.24355	.08440	.06710	-.04540	.02700	.03429	.05011
6.352	-2.035	.34023	-.22858	.08290	.02990	-.01980	.01350	.03449	.04841
6.347	.010	.32041	-.21295	.08070	-.00100	.00040	.00140	.03409	.04661
6.344	2.069	.32321	-.21595	.08190	-.03500	.02260	-.01240	.03409	.04781
6.340	4.114	.32951	-.22302	.08170	-.07230	.04820	-.02600	.03399	.04771
	GRADIENT	-.00375	.00262	-.00031	-.01679	.01122	-.00644	-.00005	-.00026

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AMES11-019(1A01) LVAP ORBITER ELVN-L HL UNSEAL

(RETO08) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = 4.000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.100 RN/L = 3.000

RUN NO. 0/ 0 RN/L = 2.99 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	BETAO	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
.064	-6.230	.15651	-.08996	.14700	.10580	-.06770	.05410	.04692	.10008
.071	-4.159	.14481	-.08038	.14960	.06670	-.04210	.03600	.04702	.10258
.075	-.029	.10545	-.04875	.14290	.00120	-.00140	.00160	.04452	.09838
.094	4.123	.12717	-.07061	.14630	-.07520	.04670	-.03430	.04692	.09938
.103	6.207	.13684	-.08099	.14460	-.11980	.07530	-.05240	.04772	.09688
GRADIENT		-.00212	.00117	-.00040	-.01713	.01072	-.00849	-.00001	-.00039

RUN NO. 0/ 0 RN/L = 2.99 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	BETAO	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
2.216	-6.219	.24509	-.15350	.14390	.09440	-.05950	.05070	.04642	.09748
2.214	-2.090	.21139	-.12640	.14390	.02690	-.01640	.01680	.04381	.10009
2.224	2.058	.20313	-.12135	.14090	-.02920	.01670	-.01520	.04422	.09668
2.234	6.197	.22461	-.14464	.14280	-.10880	.06770	-.05060	.04762	.09518
GRADIENT		-.00199	.00122	-.00072	-.01352	.00798	-.00771	.00010	-.00082

RUN NO. 0/ 0 RN/L = 2.99 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	BETAO	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
4.330	-4.129	.29922	-.19098	.14160	.05070	-.03020	.02980	.04512	.09648
4.329	-.008	.28003	-.17552	.13870	.00090	-.00130	.00080	.04412	.09458
4.334	4.139	.29461	-.19246	.14110	-.05790	.03380	-.03020	.04732	.09378
GRADIENT		-.00055	-.00018	-.00006	-.01314	.00774	-.00726	.00027	-.00033

DATE 17 OCT 75

IABIA - FORCE SOURCE DATA TABULATION

PAGE 7

AMES11-019(IAB1) LVAP ORBITER ELVN-L HL UNSEAL

(RET009) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 376.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = 4.000
 RUDDER = .000 SPOBRK = .000
 MACH = 1.100 RN/L = 2.250

RUN NO. 25/ 0 RN/L = 2.24 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-6.236	-4.085	-.09557	.09071	.15420	.08440	-.05300	.03460	.04813	.10607
-6.225	-2.030	-.12093	.10947	.15650	.03810	-.02300	.01670	.05113	.10537
-6.193	.032	-.14120	.12582	.15300	-.00670	.00540	-.00060	.04933	.10367
-6.179	2.098	-.13890	.12456	.14950	-.05140	.03300	-.01740	.04692	.10258
-6.167	4.163	-.12809	.11353	.14900	-.10210	.06530	-.03520	.04813	.10087
	GRADIENT	-.00402	.00294	-.00084	-.02243	.01419	-.00842	-.00020	-.00064

RUN NO. 24/ 0 RN/L = 2.24 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-4.143	-6.157	-.00437	.02391	.14830	.12060	-.07660	.05410	.04772	.10058
-4.132	-4.105	-.02744	.04276	.15070	.07740	-.04860	.03580	.04742	.10328
-4.101	.017	-.07348	.07894	.14550	-.00310	.00210	.00080	.04732	.09818
-4.075	4.131	-.04653	.05456	.14560	-.09090	.05720	-.03470	.04702	.09858
-4.067	6.191	-.03036	.03993	.14560	-.13950	.08840	-.05350	.04762	.09798
	GRADIENT	-.00232	.00143	-.00062	-.02043	.01285	-.00856	-.00005	-.00057

RUN NO. 23/ 0 RN/L = 2.24 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-2.045	-6.165	.07360	-.03136	.14760	.11200	-.07140	.05420	.04813	.09947
-2.034	-2.072	.03220	.00148	.15100	.03370	-.02110	.01930	.04913	.10187
-1.993	2.059	.02805	.00485	.14240	-.03910	.02400	-.01710	.04492	.09748
-1.978	6.163	.05643	-.02307	.14550	-.12710	.08000	-.05310	.04843	.09707
	GRADIENT	-.00100	.00081	-.00208	-.01762	.01092	-.00881	-.00102	-.00106

RUN NO. 26/ 0 RN/L = 2.24 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
.052	-6.173	.15463	-.08961	.14580	.10280	-.06530	.05240	.04782	.09798
.055	-4.122	.13848	-.07656	.14870	.06530	-.04110	.03490	.04782	.10088
.063	-.022	.10259	-.04678	.14230	.00060	-.00080	.00200	.04562	.09668
.079	4.095	.12973	-.07319	.14600	-.07250	.04490	-.03370	.04853	.09747
.086	6.161	.13876	-.08342	.14490	-.11710	.07330	-.05200	.05003	.09487
	GRADIENT	-.00106	.00041	-.00033	-.01677	.01047	-.00835	.00009	-.00041

DATE 17 OCT 75

IABIA - FORCE SOURCE DATA TABULATION

PAGE 8

AMES11-019(IAB1) LVAP ORBITER ELVN-L WL UNSEAL

(RETO09) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = 4.000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.100 RN/L = 2.250

RUN NO. 27/ 0 RN/L = 2.24 GRADIENT INTERVAL = -5.00/ 5.00

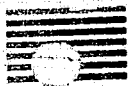
ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
2.173	-6.160	.23518	-.14694	.14380	.09300	-.05870	.04970	.04772	.09608
2.175	-2.076	.20329	-.12106	.14350	.02830	-.01740	.01710	.04552	.09798
2.187	2.048	.20353	-.12246	.14190	-.02790	.01580	-.01440	.04612	.09578
2.192	6.163	.21893	-.14087	.14010	-.10360	.06410	-.04840	.04843	.09167
GRADIENT		.00006	-.00034	-.00039	-.01363	.00805	-.00764	.00015	-.00053

RUN NO. 28/ 0 RN/L = 2.24 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
4.247	-6.141	.30342	-.19514	.14030	.08360	-.05130	.04590	.04833	.09197
4.249	-4.095	.29340	-.18701	.14150	.05230	-.03130	.03020	.04602	.09548
4.254	-.002	.27352	-.17043	.13780	.00230	-.00210	.00160	.04492	.09288
4.256	4.108	.29032	-.18944	.14080	-.05610	.03270	-.02860	.04873	.09207
4.255	6.174	.29240	-.19382	.13910	-.09100	.05440	-.04470	.05023	.08887
GRADIENT		-.00037	-.00030	-.00008	-.01322	.00780	-.00717	.00033	-.00042

RUN NO. 22/ 0 RN/L = 2.24 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
6.369	-4.073	.35479	-.22981	.13890	.04550	-.02690	.02700	.04682	.09208
6.370	-2.035	.34947	-.22528	.13820	.02130	-.01250	.01330	.04682	.09138
6.369	.015	.34636	-.22228	.13660	.00110	-.00140	.00110	.04532	.09128
6.366	2.074	.34754	-.22546	.13780	-.02310	.01230	-.01230	.04682	.09098
6.365	4.127	.35256	-.23279	.13830	-.04940	.02830	-.02550	.04953	.08877
GRADIENT		-.00031	-.00030	-.00008	-.01142	.00659	-.00637	.00026	-.00034



DATE 17 OCT 75

IABIA - FORCE SOURCE DATA TABULATION

AMES11-019(IAB1) LVAP ORBITER ELVN-L HL SEALED

(RETO10) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 8.000 ELV-08 = 4.000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.100 RN/L = 2.250

RUN NO. 29/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

BETA0	ALPHA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
.019	-6.200	-.14400	.12700	.15250	-.00470	.00380	-.00010	.05053	.10197
.001	-4.091	-.07499	.07941	.14510	-.00170	.00110	.00110	.04782	.09728
-.016	-2.000	.01435	.01502	.14290	-.00040	.00000	.00140	.04652	.09638
-.022	.085	.10375	-.04855	.14250	.00040	-.00080	.00130	.04492	.09758
-.019	2.189	.19100	-.11146	.14130	.00120	-.00150	.00150	.04512	.09618
-.014	4.274	.27651	-.17443	.13830	.00160	-.00180	.00160	.04572	.09258
.001	6.376	.34834	-.22490	.13650	.00150	-.00180	.00150	.04552	.09098
	GRADIENT	.04205	-.03031	-.00073	.00039	-.00035	.00005	-.00027	-.00046

AMES11-019(IAB1) LVAP ORBITER ELVN-L HL SEALED

(RETO11) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 8.000 ELV-08 = 4.000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.250 RN/L = 2.250

RUN NO. 30/ 0 RN/L = 2.27 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-6.258	-4.078	-.05745	.06029	.15590	.08630	-.05530	.03610	.04111	.11479
-6.244	-2.027	-.08099	.07788	.15540	.04000	-.02500	.01820	.04432	.11108
-6.209	.049	-.09834	.09392	.15030	-.00480	.00380	.00030	.04021	.11009
-6.193	2.114	-.09628	.09099	.14810	-.05170	.03390	-.01820	.04010	.10800
-6.191	4.175	-.08724	.08119	.14810	-.10050	.06470	-.03600	.04071	.10739
	GRADIENT	-.00363	.00266	-.00111	-.02254	.01448	-.00875	-.00024	-.00087

RUN NO. 31/ 0 RN/L = 2.27 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-4.161	-6.152	.02165	.00329	.15210	.11660	-.07310	.05260	.04111	.11099
-4.149	-4.101	.01147	.00843	.15310	.08200	-.05270	.03650	.04391	.10919
-4.119	.013	-.03030	.04277	.14800	-.00040	.00000	.00180	.04101	.10699
-4.090	4.141	-.01006	.02422	.14610	-.08770	.05460	-.03360	.03990	.10620
-4.088	6.203	-.00983	.02237	.14710	-.13230	.08270	-.05100	.04151	.10559
	GRADIENT	-.00261	.00191	-.00085	-.02059	.01302	-.00851	-.00049	-.00036

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OF POOR QUALITY

DATE 17 OCT 75

IABIA - FORCE SOURCE DATA TABULATION

PAGE 10

AMES11-019(IAB1) LVAP ORBITER ELVN-L HL SEALED

(RETO11) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 8.000 ELV-08 = 4.000
 RUDDER = .000 SPOBRK = .000
 MACH = 1.250 RN/L = 2.250

RUN NO. 32/ 0 RN/L = 2.27 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-2.044	-6.169	.10345	-.05764	.15220	.10770	-.06720	.05100	.04311	.10909
-2.029	-2.075	.07483	-.03632	.15180	.03690	-.02340	.01870	.04271	.10909
-2.008	2.060	.06706	-.03010	.14530	-.03760	.02290	-.01570	.03840	.10690
-1.995	6.179	.07372	-.03964	.14650	-.11920	.07310	-.04880	.04171	.10479
GRADIENT		-.00188	.00150	-.00157	-.01802	.01120	-.00832	-.00104	-.00053

RUN NO. 33/ 0 RN/L = 2.27 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
.066	-6.174	.18969	-.12120	.15270	.09950	-.06160	.04890	.04432	.10838
.072	-4.124	.18270	-.11714	.15120	.06750	-.04210	.03320	.04371	.10749
.075	-.018	.14546	-.08678	.14470	.00100	-.00140	.00180	.04021	.10449
.088	4.105	.15842	-.10025	.14540	-.06960	.04160	-.03060	.03990	.10550
.092	6.164	.15752	-.10166	.14620	-.10750	.06500	-.04680	.04181	.10439
GRADIENT		-.00295	.00205	-.00070	-.01666	.01017	-.00775	-.00046	-.00024

RUN NO. 34/ 0 RN/L = 2.27 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
1.116	-6.171	.22686	-.14827	.15170	.09510	-.05880	.04720	.04432	.10738
1.120	-2.081	.19812	-.12656	.14850	.03170	-.02000	.01690	.04181	.10669
1.132	2.044	.19074	-.12057	.14190	-.03030	.01760	-.01350	.03800	.10390
1.141	6.158	.20272	-.13433	.14600	-.10320	.06240	-.04600	.04131	.10469
GRADIENT		-.00179	.00145	-.00160	-.01503	.00912	-.00737	-.00092	-.00068

RUN NO. 35/ 0 RN/L = 2.28 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
3.217	-6.163	.30373	-.20352	.14880	.08880	-.05470	.04540	.04311	.10569
3.218	-4.114	.29044	-.19359	.14800	.06060	-.03760	.03060	.04221	.10579
3.223	-.012	.26888	-.17505	.14230	.00220	-.00220	.00220	.03890	.10340
3.229	4.104	.27879	-.18678	.14280	-.05940	.03450	-.02800	.03970	.10310
3.228	6.167	.27919	-.19021	.14380	-.09660	.05820	-.04430	.04251	.10129
GRADIENT		-.00141	.00083	-.00063	-.01460	.00877	-.00713	-.00030	-.00033

DATE 17 OCT 75

IAB1A - FORCE SOURCE DATA TABULATION

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AMES11-019(IAB1) LVAP ORBITER ELVN-L HL SEALED

(RETO11) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 876.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 8.000 ELV-08 = 4.000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.250 RN/L = 2.250

RUN NO. 36/ 0 RN/L = 2.28 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CEB	CABT	CAF
5.320	-4.097	.34896	-.23411	.14160	.05350	-.03230	.02830	.04031	.10149
5.323	-2.054	.33703	-.22362	.13900	.02780	-.01730	.01520	.03860	.10040
5.325	.002	.33544	-.22255	.14020	.00180	-.00200	.00170	.03980	.10040
5.323	2.067	.33643	-.22522	.13860	-.02620	.01480	-.01270	.03860	.10000
5.325	4.125	.34288	-.23236	.14010	-.05190	.02910	-.02550	.04081	.09929
GRADIENT		-.00062	.00009	-.00018	-.01288	.00753	-.00659	.00005	-.00023

AMES11-019(IAB1) LVAP ORBITER ELVN-L HL SEALED

(RETO12) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 8.000 ELV-08 = .000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.400 RN/L = 2.250

RUN NO. 0/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CEB	CABT	CAF
-6.305	-4.079	-.07591	.07288	.16470	.09310	-.06110	.03490	.04572	.11898
-6.288	-2.026	-.09092	.08526	.16130	.04420	-.02830	.01750	.04281	.11849
-6.273	.028	-.10517	.09677	.15620	-.00250	.00220	.00060	.04031	.11589
-6.241	2.117	-.10618	.09670	.15300	-.05290	.03500	-.01710	.03950	.11350
-6.229	4.174	-.10376	.09322	.15580	-.10590	.07070	-.03480	.04161	.11419
GRADIENT		-.00343	.00252	-.00126	-.02398	.01583	-.00843	-.00056	-.00071

RUN NO. 0/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CEB	CABT	CAF
-4.192	-6.158	.00054	.01584	.15390	.13610	-.09000	.05290	.04191	.11199
-4.180	-4.103	-.01241	.02445	.15750	.09090	-.05970	.03520	.04432	.11318
-4.157	.002	-.03895	.04582	.15160	.00060	-.00050	.00190	.04081	.11079
-4.134	4.138	-.03140	.03835	.15060	-.09470	.06190	-.03210	.03900	.11160
-4.123	6.209	-.03048	.03484	.14840	-.14580	.09530	-.05000	.04121	.10719
GRADIENT		-.00230	.00168	-.00084	-.02252	.01476	-.00817	-.00064	-.00019

AMES11-019(IAB1) LVAP ORBITER ELVN-L HL SEALED

(RETO12) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 975.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = .000
 RUDDER = .000 SPOORR = .000
 MACH = 1.400 RN/L = 2.250

RUN NO. 0/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-2.103	-6.173	.08142	-.04624	.15360	.12520	-.08190	.05070	.04341	.11019
-2.089	-2.072	.05509	-.02561	.15330	.04030	-.02570	.01730	.04151	.11179
-2.053	2.068	.04702	-.01910	.14850	-.04100	.02570	-.01410	.03910	.10940
-2.034	6.180	.05225	-.02813	.14610	-.13250	.08510	-.04790	.04101	.10509
GRADIENT		-.00195	.00157	-.00116	-.01964	.01242	-.00758	-.00058	-.00058

RUN NO. 0/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
.003	-6.180	.16227	-.10689	.15210	.11420	-.07400	.04860	.04341	.10869
.006	-4.126	.14888	-.09616	.15330	.07350	-.04720	.03180	.04251	.11079
.015	-.027	.12793	-.07815	.14780	.00100	-.00110	.03250	.03850	.10930
.024	4.105	.13189	-.08440	.14800	-.07670	.04850	-.02920	.03950	.10840
.038	6.165	.13343	-.08853	.14570	-.12010	.07600	-.04600	.04071	.10499
GRADIENT		-.00206	.00143	-.00064	-.01825	.01163	-.00741	-.00035	-.00029

RUN NO. 0/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
2.130	-6.171	.24412	-.16626	.15050	.10520	-.06800	.04730	.04311	.10739
2.133	-2.078	.21375	-.14258	.14910	.03170	-.02020	.01580	.04081	.10829
2.141	2.056	.20681	-.13622	.14590	-.03020	.01790	-.01170	.03770	.10820
2.152	6.169	.21717	-.14976	.14520	-.11050	.06950	-.04460	.04101	.10419
GRADIENT		-.00168	.00154	-.00077	-.01497	.00922	-.00665	-.00075	-.00002

RUN NO. 0/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
4.219	-6.158	.31094	-.21284	.14700	.09890	-.06370	.04620	.04181	.10519
4.218	-4.108	.29148	-.19798	.14840	.06250	-.04000	.03060	.04221	.10619
4.224	-.013	.28049	-.18744	.14590	.00190	-.00210	.00220	.03790	.10800
4.226	4.116	.28439	-.19410	.14450	-.06460	.04030	-.02740	.03960	.10490
4.218	6.193	.28726	-.19933	.14220	-.10330	.06460	-.04340	.04021	.10199
GRADIENT		-.00086	.00047	-.00047	-.01546	.00976	-.00705	-.00032	-.00016

DATE 17 OCT 75

1A81A - FORCE SOURCE DATA TABULATION

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AMES11-019(1A81) LVAP ORBITER ELVN-L HL SEALED

(RETO12) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = .000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.400 RN/L = 2.250

RUN NO. 0/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
6.323	-4.082	.34805	-.23580	.14290	.05610	-.03500	.02810	.03900	.10390
6.327	-2.045	.34691	-.23413	.14400	.02680	-.01660	.01410	.04041	.10359
6.326	.008	.34260	-.22945	.14470	.00170	-.00190	.00210	.03860	.10610
6.323	2.079	.34167	-.23074	.14150	-.02450	.01360	-.01050	.03760	.10390
6.317	4.142	.34023	-.23245	.14180	-.05870	.03560	-.02540	.04041	.10139
GRADIENT		-.00101	.00049	-.00023	-.01365	.00833	-.00640	.00000	-.00023

AMES11-019(1A81) LVAP ORBITER ELVN-L HL SEALED

(RETO13) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = .000
 RUDDER = .000 SPDBRK = .000
 MACH = .600 RN/L = 2.250

RUN NO. 42/ 0 RN/L = 2.26 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-6.055	-.005	-.09757	.06972	.06400	-.00050	.00110	.00130	.02968	.03432
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 41/ 0 RN/L = 2.26 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-4.020	-4.064	-.02373	.01899	.06540	.08840	-.05890	.03050	.02898	.03652
-3.985	.001	-.03715	.02990	.06370	-.00220	.00220	.00080	.02667	.03703
-3.974	4.077	-.03494	.02494	.06580	-.09710	.06600	-.02980	.02988	.03592
GRADIENT		-.00138	.00073	.00005	-.02279	.01534	-.00741	.00012	-.00007

RUN NO. 37/ 0 RN/L = 2.24 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
.096	-6.101	.11027	-.07342	.05960	.11640	-.07850	.04400	.03118	.02842
.098	-4.070	.10424	-.06670	.06210	.07660	-.05130	.02890	.02747	.03463
.086	-.016	.08130	-.04945	.06020	-.00330	.00290	.00030	.02707	.03313
.117	4.075	.09091	-.05925	.06190	-.08660	.05960	-.02850	.02777	.03413
.121	6.104	.09515	-.06491	.05960	-.12990	.08900	-.04300	.02857	.03103
GRADIENT		-.00163	.00091	-.00002	-.02004	.01362	-.00705	.00004	-.00006

AMES11-019(IAB1) LVAP ORBITER ELVN-L HL SEALED

(RETO13) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. YT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = .000
 RUDDER = .000 SPDBRK = .000
 MACH = .600 RN/L = 2.250

RUN NO. 38/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
4.241	-4.062	.23349	-.15513	.05280	.06290	-.04200	.02550	.02888	.02392
4.240	-.004	.20913	-.13530	.04990	-.00330	.00260	-.00010	.02597	.02393
4.238	4.073	.21713	-.14571	.05160	-.07190	.04910	-.02650	.02867	.02293
GRADIENT		-.00201	.00116	-.00015	-.01657	.01120	-.00639	-.00002	-.00012

RUN NO. 39/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
8.385	-.010	.34947	-.23214	.03500	.00020	.00040	.00050	.02486	.01014
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 40/ 0 RN/L = 2.27 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
10.456	.002	.40877	-.27336	.02810	-.00110	.00130	.00000	.02456	.00354
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

AMES11-019(IAB1) LVAP ORBITER ELVN-L HL SEALED

(RETO14) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. YT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = -4.000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.400 RN/L = 2.250

RUN NO. 51/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-6.312	-4.066	-.09295	.08690	.16250	.08850	-.05760	.03410	.04542	.11708
-6.295	-2.013	-.10847	.09873	.15980	.03970	-.02480	.01650	.04502	.11478
-6.258	.056	-.11933	.10867	.15440	-.00770	.00600	-.00100	.04091	.11349
-6.244	2.126	-.12188	.11030	.15240	-.05610	.03740	-.01810	.03950	.11290
-6.233	4.187	-.11996	.10649	.15390	-.10830	.07200	-.03540	.04211	.11179
GRADIENT		-.00327	.00246	-.00119	-.02371	.01557	-.00841	-.00059	-.00050

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AHES11-019(IAB1) LVAP ORBITER ELVN-L HL SEALED

(RETD14) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = 8.000 ELV-CS = -4.000
 RUDDER = .000 SPD8RK = .000
 MACH = 1.400 RN/L = 2.250

RUN NO. 52/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-4.204	-6.151	-.01099	.02574	.15350	.13160	-.08640	.05150	.04161	.11189
-4.193	-4.092	-.02413	.03458	.15690	.08530	-.05550	.03370	.04391	.11299
-4.164	.031	-.04729	.05279	.15070	-.00440	.00310	.00020	.04181	.10889
-4.142	4.151	-.04089	.04625	.14990	-.09850	.06450	-.03350	.04051	.10939
-4.129	6.220	-.03870	.04257	.14780	-.14960	.09800	-.05120	.04081	.10699
	GRADIENT	-.00203	.00142	-.00085	-.02230	.01456	-.00815	-.00041	-.00044

RUN NO. 53/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-2.093	-6.169	.07287	-.03874	.15280	.12080	-.07830	.04960	.04321	.10959
-2.073	-2.063	.04585	-.01789	.15300	.03620	-.02250	.01600	.04311	.10989
-2.057	2.077	.03886	-.01195	.14790	-.04460	.02830	-.01550	.03990	.10800
-2.039	6.185	.04424	-.02027	.14530	-.13370	.08570	-.04860	.03970	.10560
	GRADIENT	-.00169	.00143	-.00123	-.01952	.01227	-.00761	-.00077	-.00046

RUN NO. 54/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
.021	-6.181	.15962	-.10326	.15140	.11000	-.07030	.04760	.04311	.10829
.023	-4.121	.14506	-.09186	.15320	.07020	-.04440	.03110	.04261	.11059
.027	-2.070	.13004	-.08011	.15120	.03060	-.01860	.01480	.04171	.10949
.027	-.007	.11654	-.06913	.14690	-.00450	.00310	.00050	.03990	.10700
.038	4.112	.12243	-.07645	.14710	-.08090	.05140	-.03060	.04041	.10669
.051	6.174	.12456	-.08040	.14450	-.12430	.07880	-.04740	.04010	.10440
	GRADIENT	-.00260	.00175	-.00077	-.01826	.01155	-.00745	-.00028	-.00049

RUN NO. 55/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
2.131	-6.166	.24118	-.18254	.14970	.10080	-.06430	.04590	.04281	.10689
2.132	-2.063	.20973	-.13778	.14900	.02670	-.01540	.01400	.04091	.10809
2.136	2.064	.19834	-.12882	.14480	-.03550	.02180	-.01360	.03800	.10680
2.148	6.175	.20958	-.14293	.14350	-.11540	.07270	-.04630	.04051	.10299
	GRADIENT	-.00276	.00217	-.00102	-.01507	.00926	-.00669	-.00070	-.00031

AMES11-019(1A81) LVAP ORBITER ELVN-L HL SEALED

(RET014) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = 8.000 ELV-09 = -4.000
 RUDDER = .000 SPD8RK = .000
 MACH = 1.400 RN/L = 2.250

RUN NO. 56/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
4.219	-6.143	.30754	-.20884	.14610	.09420	-.06010	.04470	.04181	.10429
4.218	-4.089	.28807	-.19373	.14770	.05720	-.03600	.02860	.04131	.10639
4.218	.008	.27100	-.17977	.14420	-.00360	.00200	.00020	.03910	.10510
4.217	4.126	.27486	-.18640	.14320	-.06990	.04400	-.02910	.03970	.10350
4.218	6.196	.28114	-.19383	.14020	-.10690	.06680	-.04460	.03990	.10030
GRADIENT		-.00161	.00089	-.00055	-.01547	.00974	-.00702	-.00019	-.00035

RUN NO. 57/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
6.327	-4.066	.34519	-.23243	.14210	.05060	-.03080	.02610	.03970	.10240
6.327	-2.028	.34038	-.22843	.14360	.02110	-.01250	.01210	.04091	.10269
6.325	.021	.33622	-.22410	.14400	-.00320	.00160	.00030	.03950	.10450
6.323	2.091	.33585	-.22600	.14040	-.02930	.01710	-.01220	.03900	.10140
6.316	4.148	.33364	-.22675	.14040	-.06300	.03860	-.02700	.04000	.10040
GRADIENT		-.00134	.00067	-.00032	-.01351	.00820	-.00635	-.00006	-.00026

AMES11-019(1A81) LVAP ORBITER ELVN-L HL SEALED

(RET015) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = 8.000 ELV-09 = 6.000
 RUDDER = .000 SPD8RK = .000
 MACH = .900 RN/L = 2.250

RUN NO. 65/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-6.170	-4.069	-.05103	.03592	.09700	.09810	-.06530	.03360	.03700	.06000
-6.165	-2.034	-.07280	.05289	.10020	.04750	-.03060	.04710	.03850	.06170
-6.129	.031	-.08623	.06181	.09650	-.00130	.00100	.00090	.04081	.05569
-6.118	2.093	-.08486	.05985	.09820	-.05020	.03270	-.01530	.04191	.05629
-6.110	4.138	-.07513	.05075	.09990	-.10330	.06810	-.03220	.04141	.05849
GRADIENT		-.00293	.00178	.00018	-.02437	.01607	-.00798	.00060	-.00041



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IABIA - FORCE SOURCE DATA TABULATION

(RET015) (14 OCT 75)

AMES11-019(IAB1) LVAP ORBITER ELVN-L HL SEALED

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 IN. YMRP = .0000 IN. YT
BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
SCALE = .0300

ELV-1B = 8.000 ELV-0B = 6.000
RUDDER = .000 SPDERK = .000
MACH = .900 RN/L = 2.250

RUN NO. 66/ 0 RN/L = 2.26 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	BETAO	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-4.082	-6.131	.02951	-.02067	.09620	.13960	-.09340	.04890	.03980	.05640
-4.072	-4.082	.02006	-.01248	.09670	.09280	-.06200	.03320	.03629	.06041
-4.058	.016	-.01413	.01189	.09260	-.00140	.00120	.00080	.03860	.05400
-4.039	4.120	.00075	-.00212	.09430	-.09830	.06570	-.03150	.03870	.05560
-4.035	6.171	.00331	-.00682	.09340	-.15060	.10120	-.04860	.04041	.05299
GRADIENT		-.00235	.00126	-.00029	-.02330	.01557	-.00789	.00029	-.00059

RUN NO. 67/ 0 RN/L = 2.26 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	BETAO	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-2.011	-6.134	.09951	-.06841	.09400	.12980	-.08750	.04820	.03810	.05590
-2.000	-2.052	.07599	-.05091	.09330	.04070	-.02660	.01630	.03740	.05590
-1.985	2.064	.06571	-.04391	.09160	-.04500	.03010	-.01530	.03850	.05310
-1.973	6.153	.07895	-.05721	.09050	-.14000	.09470	-.04750	.03720	.05330
GRADIENT		-.00250	.00170	-.00041	-.02082	.01378	-.00768	.00027	-.00068

RUN NO. 68/ 0 RN/L = 2.26 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	BETAO	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
.079	-6.140	.18418	-.12535	.08760	.12240	-.08380	.04760	.03419	.05341
.084	-4.099	.17801	-.12158	.08860	.08010	-.05450	.03210	.03459	.05401
.085	-.004	.13850	-.09251	.08610	-.00170	.00140	.00070	.03660	.04950
.097	4.092	.15308	-.10583	.08800	-.08550	.05790	-.03090	.03640	.05160
.102	6.138	.15575	-.10934	.08770	-.13210	.09020	-.04670	.03730	.05040
GRADIENT		-.00304	.00192	-.00007	-.02022	.01372	-.00769	.00022	-.00029

RUN NO. 69/ 0 RN/L = 2.26 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO	BETAO	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
2.176	-6.134	.25449	-.17425	.08580	.11540	-.07950	.04540	.03529	.05051
2.181	-2.059	.23034	-.15640	.08380	.03420	-.02300	.01490	.03379	.05001
2.185	2.048	.21908	-.14865	.08220	-.04120	.02810	-.01400	.03459	.04761
2.183	6.140	.22043	-.15286	.08660	-.12620	.08660	-.04410	.03629	.05031
GRADIENT		-.00274	.00189	-.00039	-.01936	.01244	-.00704	.00020	-.00058

AMES11-019(IAB1) LVAP ORBITER ELVN-L HL SEALED

(RETO15) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 8.000 ELV-08 = 6.000
 RUDDER = .000 SPDBRK = .000
 MACH = .900 RN/L = 2.250

RUN NO. 70/ 0 RN/L = 2.26 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
4.251	-6.118	.31981	-.22031	.08600	.10720	-.07280	.04250	.03810	.04790
4.253	-4.076	.31304	-.21437	.08500	.07110	-.04840	.02870	.03329	.05171
4.252	.002	.27819	-.18752	.08150	-.00250	.00180	.00110	.03369	.04781
4.253	4.095	.29077	-.20062	.08080	-.07880	.05400	-.02750	.03339	.04741
4.245	6.148	.28354	-.19710	.08290	-.11740	.08020	-.04110	.03569	.04721
	GRADIENT	-.00272	.00168	-.00051	-.01835	.01253	-.00688	.00001	-.00053

RUN NO. 71/ 0 RN/L = 2.26 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
5.304	-4.072	.34169	-.23440	.08280	.06900	-.04680	.02770	.03359	.04921
5.305	-2.036	.32318	-.21929	.08310	.03010	-.01960	.01400	.03289	.05021
5.302	.007	.30658	-.20655	.07990	-.00240	.00170	.00110	.03309	.04681
5.302	2.065	.31146	-.21122	.08150	-.03890	.02630	-.01340	.03379	.04771
5.298	4.107	.31861	-.21970	.08200	-.07850	.05370	-.02720	.03429	.04771
	GRADIENT	-.00283	.00183	-.00016	-.01779	.01207	-.00671	.00011	-.00027

AMES11-019(IAB1) LVAP ORBITER ELVN-L HL SEALED

(RETO16) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 8.000 ELV-08 = 6.000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.100 RN/L = 2.250

RUN NO. 58/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-6.246	-4.078	-.10251	.09557	.15410	.08650	-.05470	.03550	.04732	.10678
-6.234	-2.033	-.12939	.11580	.15690	.04240	-.02650	.01840	.05013	.10677
-6.194	.038	-.15026	.13190	.15200	-.00300	.00240	.00080	.04963	.10237
-6.181	2.103	-.14769	.12993	.14940	-.04780	.03010	-.01650	.04772	.10168
-6.169	4.159	-.13397	.11691	.14920	-.09960	.06330	-.03480	.04813	.10107
	GRADIENT	-.00394	.00276	-.00084	-.02244	.01420	-.00852	-.00004	-.00080

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AMES11-019(IAB1) LVAP ORBITER ELVN-L HL SEALED

(RETO16) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 978.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = 6.000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.100 RN/L = 2.250

RUN NO. 59/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-4.136	-6.157	-.00602	.02451	.15010	.12540	-.08070	.05590	.04793	.10217
-4.125	-4.102	-.02654	.04101	.15150	.08080	-.05130	.03710	.04762	.10388
-4.108	.014	-.07178	.07634	.14650	-.00030	.00020	.00160	.04732	.09918
-4.082	4.132	-.04301	.05069	.14700	-.09020	.05660	-.03480	.04722	.09978
-4.074	6.189	-.02859	.03723	.14760	-.14030	.08900	-.05400	.04772	.09988
		GRADIENT	-.00200	.00117	-.00055	-.02077	.01310	-.00873	-.00005

RUN NO. 60/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-2.033	-6.165	.08078	-.03786	.14940	.11390	-.07290	.05490	.04782	.10158
-2.021	-2.073	.04067	-.00637	.15180	.03510	-.02190	.01970	.04943	.10237
-2.004	2.061	.02883	.00287	.14310	-.03760	.02280	-.01710	.04452	.09858
-1.987	6.166	.05862	-.02662	.14700	-.12680	.07990	-.05320	.04943	.09757
		GRADIENT	-.00286	.00224	-.00210	-.01759	.01081	-.00890	-.00119

RUN NO. 61/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
.070	-6.166	.15575	-.09146	.14850	.10400	-.06650	.05280	.04833	.10017
.076	-4.111	.14601	-.08334	.15040	.06590	-.04170	.03510	.04762	.10278
.084	-.007	.11331	-.05668	.14480	.00200	-.00170	.00210	.04592	.09888
.099	4.099	.13425	-.07772	.14770	-.07150	.04430	-.03380	.04853	.09917
.104	6.156	.14064	-.08600	.14720	-.11670	.07350	-.05210	.05003	.09717
		GRADIENT	-.00143	.00068	-.00033	-.01674	.01048	-.00839	.00011

RUN NO. 62/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
2.179	-6.160	.23824	-.15056	.14520	.09480	-.06020	.05020	.04873	.09647
2.183	-2.076	.21198	-.12853	.14560	.02890	-.01780	.01760	.04432	.10128
2.194	2.052	.21013	-.12780	.14400	-.02730	.01560	-.01470	.04442	.09958
2.199	6.158	.22403	-.14512	.14370	-.10430	.06490	-.04940	.04823	.09547
		GRADIENT	-.00045	.00018	-.00039	-.01361	.00809	-.00782	.00002

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AMES11-019(1A81) LVAP ORBITER ELVN-L HL SEALED

(RETO16) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 8.000 ELV-0B = 5.000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.100 RN/L = 2.250

RUN NO. 63/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
4.246	-6.141	.31018	-.20229	.14270	.08550	-.05310	.04690	.04983	.09287
4.252	-4.091	.29797	-.19219	.14360	.05220	-.03130	.03070	.04682	.09678
4.259	-.003	.28404	-.18073	.14070	.00200	-.00180	.00190	.04562	.09508
4.261	4.109	.29958	-.19804	.14320	-.05590	.03280	-.02940	.04853	.09467
4.259	6.170	.29583	-.19785	.14120	-.09190	.05520	-.04450	.05023	.09097
	GRADIENT	.00020	-.00072	-.00005	-.01318	.00782	-.00733	.00021	-.00026

RUN NO. 64/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
6.364	-4.074	.36104	-.23709	.14140	.04780	-.02870	.02830	.04883	.09257
6.367	-2.043	.35839	-.23383	.14020	.02260	-.01320	.01450	.04692	.09328
6.367	.008	.35379	-.22928	.13840	.00150	-.00160	.00190	.04522	.09318
6.364	2.073	.35211	-.23033	.13900	-.02260	.01210	-.01130	.04722	.09178
6.359	4.124	.35495	-.23662	.14080	-.05010	.02870	-.02470	.05043	.09037
	GRADIENT	-.00090	.00021	-.00012	-.01175	.00683	-.00643	.00017	-.00029

AMES11-019(1A81) LVAP ORBITER ELVN-L HL SEALED

(RETO17) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 10.000 ELV-0B = 4.000
 RUDDER = .000 SPDBRK = .000
 MACH = .900 RN/L = 2.250

RUN NO. 85/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-6.178	-4.055	-.05746	.04111	.10060	.09750	-.06450	.03360	.03940	.06120
-6.167	-2.018	-.07275	.05256	.09830	.04680	-.03050	.01710	.03880	.05950
-6.142	.046	-.09033	.06556	.09660	-.00120	.00070	.00110	.04061	.05599
-6.130	2.104	-.08649	.06185	.09930	-.04900	.03160	-.01480	.04201	.05729
-6.123	4.151	-.07766	.05370	.10240	-.10090	.06610	-.03120	.04171	.06069
	GRADIENT	-.00264	.00168	.00022	-.02399	.01574	-.00786	.00038	-.00015

DATE 17 OCT 75

1A81A - FORCE SOURCE DATA TABULATION

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AMES11-019(1A81) LVAP ORBITER ELVN-L HL SEALED

(RETO17) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 10.000 ELV-08 = 4.000
 RUDDER = .000 SPDBRK = .000
 MACH = .900 RN/L = 2.250

RUN NO. 86/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-4.089	-6.119	.02744	-.01874	.09640	.13800	-.09220	.04890	.03960	.05680
-4.079	-4.073	.01811	-.01126	.09720	.09150	-.06100	.03300	.03790	.05930
-4.065	.030	-.01946	.01681	.09390	-.00150	.00100	.00110	.03900	.05490
-4.044	4.123	.00067	-.00240	.09410	-.09610	.06390	-.03070	.03970	.05440
-4.041	6.175	.00151	-.00488	.09470	-.14770	.09980	-.04800	.04061	.05409
GRADIENT		-.00213	.00108	-.00038	-.02289	.01524	-.00777	.00022	-.00060

RUN NO. 87/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-2.003	-6.127	.10119	-.06928	.09050	.12810	-.08650	.04770	.03579	.05471
-1.993	-2.044	.07471	-.04903	.09190	.04120	-.02720	.01650	.03549	.05641
-1.979	2.069	.06481	-.04309	.09040	-.04340	.02860	-.01450	.03840	.05200
-1.967	6.153	.07773	-.05699	.09070	-.13750	.09270	-.04710	.03910	.05160
GRADIENT		-.00241	.00144	-.00036	-.02057	.01357	-.00754	.00071	-.00107

RUN NO. 88/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
.077	-6.130	.17785	-.12049	.09110	.12170	-.08290	.04750	.03710	.05400
.082	-4.088	.17026	-.11523	.09120	.07980	-.05400	.03190	.03650	.05470
.083	.004	.13431	-.08898	.08510	-.00120	.00080	.00080	.03609	.04901
.096	4.096	.14898	-.10243	.08780	-.08210	.05510	-.03010	.03640	.05140
.101	6.143	.15142	-.10594	.08800	-.12860	.08720	-.04600	.03780	.05020
GRADIENT		-.00260	.00156	-.00042	-.01978	.01333	-.00758	-.00001	-.00040

RUN NO. 89/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
2.172	-6.124	.25211	-.17231	.08710	.11330	-.07760	.04540	.03619	.05091
2.177	-2.050	.22381	-.15032	.08560	.03620	-.02430	.01560	.03439	.05121
2.180	2.054	.21028	-.14045	.08450	-.03810	.02540	-.01340	.03459	.04991
2.179	6.141	.21613	-.14935	.08300	-.12180	.08350	-.04320	.03479	.04821
GRADIENT		-.00330	.00241	-.00027	-.01810	.01211	-.00707	.00005	-.00032

AMES11-019(IAB1) LVAP ORBITER ELVN-L HL SEALED

(RETO17) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 10.000 ELV-08 = 4.000
 RUDDER = .000 SPDBRK = .000
 MACH = .900 RN/L = 2.250

RUN NO. 90/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
4.252	-6.110	.31942	-.22006	.08460	.10480	-.07080	.04270	.03710	.04750
4.257	-4.071	.31301	-.21425	.08630	.06840	-.04620	.02910	.03449	.05181
4.252	.005	.27076	-.18157	.08090	-.00070	.00030	.00170	.03359	.04731
4.251	4.101	.28344	-.19440	.08110	-.07510	.05090	-.02690	.03339	.04771
4.247	6.153	.28011	-.19470	.08130	-.11320	.07690	-.04010	.03579	.04551
GRADIENT		-.00361	.00243	-.00064	-.01756	.01188	-.00685	-.00013	-.00050

RUN NO. 91/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
6.350	-4.053	.37480	-.25738	.08460	.06420	-.04290	.02750	.03499	.04961
6.348	-2.025	.35480	-.24168	.08470	.02700	-.01730	.01410	.03499	.04971
6.344	.018	.33911	-.22927	.08170	-.00260	.00180	.00200	.03419	.04751
6.340	2.076	.33951	-.23042	.08310	-.03510	.02300	-.01130	.03439	.04871
6.335	4.123	.34647	-.23858	.08270	-.07350	.04940	-.02570	.03509	.04761
GRADIENT		-.00351	.00238	-.00026	-.01650	.01100	-.00644	-.00002	-.00024

AMES11-019(IAB1) LVAP ORBITER ELVN-L HL SEALED

(RETO18) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 10.000 ELV-08 = 4.000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.100 RN/L = 2.250

RUN NO. 92/ 0 RN/L = 2.26 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-6.223	.032	-.15026	.13221	.15040	-.00170	.00110	.00140	.04772	.10268
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 93/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-4.129	-4.089	-.02667	.04071	.15230	.07940	-.05040	.03670	.04772	.10458
-4.111	.021	-.07250	.07681	.14660	-.00110	.00050	.00150	.04712	.09948
-4.085	4.129	-.04087	.04919	.14800	-.08860	.05540	-.03410	.04672	.10128
GRADIENT		-.00173	.00103	-.00052	-.02044	.01287	-.00862	-.00012	-.00040

DATE 17 OCT 75

IA81A - FORCE SOURCE DATA TABULATION

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AMES11-019(IA81) LVAP ORBITER ELVN-L HL SEALED

(RETO18) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = 10.000 ELV-08 = 4.000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.100 RN/L = 2.250

RUN NO. 94/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
.045	-6.157	.16082	-.09473	.14850	.10510	-.06720	.05390	.04682	.10168
.049	-4.107	.14927	-.08509	.15200	.06720	-.04280	.03650	.04682	.10518
.052	-.012	.10857	-.05328	.14430	.00140	-.00170	.00200	.04532	.09898
.069	4.104	.13142	-.07642	.14760	-.07120	.04370	-.03360	.04903	.09857
.076	6.162	.13964	-.08552	.14650	-.11460	.07160	-.05150	.04933	.09717
GRADIENT		-.00217	.00105	-.00053	-.01686	.01054	-.00854	.00027	-.00080

RUN NO. 95/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
4.250	-4.085	.30160	-.19498	.14370	.05170	-.03110	.03090	.04632	.09738
4.253	.000	.28241	-.17903	.14050	.00180	-.00200	.00170	.04422	.09628
4.255	4.115	.29715	-.19679	.14260	-.05580	.03230	-.02950	.04883	.09377
GRADIENT		-.00054	-.00023	-.00013	-.01311	.00773	-.00737	.00031	-.00044

RUN NO. 96/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
6.356	.011	.35603	-.23218	.13850	.00230	-.00250	.00180	.04622	.09228
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

AMES11-019(IA81) LVAP ORBITER ELVN-L HL SEALED

(RETO19) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = 10.000 ELV-08 = 4.000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.250 RN/L = 2.250

RUN NO. 97/ 0 RN/L = 2.27 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-4.169	-4.086	.01803	.00278	.15300	.08140	-.05220	.03670	.04271	.11029
-4.149	.018	-.02238	.03494	.14890	.00000	-.00030	.00210	.04181	.10709
-4.104	4.148	-.00291	.01725	.14690	-.08590	.05350	-.03300	.04000	.10690
GRADIENT		-.00254	.00175	-.00074	-.02032	.01284	-.00846	-.00033	-.00041

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IAB1A - FORCE SOURCE DATA TABULATION

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AMES11-019(IAB1) LVAP ORBITER ELVN-L HL SEALED

(RETO19) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 10.000 ELV-0B = 4.000
 RUDDER = .000 SPOBRK = .000
 MACH = 1.250 RN/L = 2.250

RUN NO. 98/ 0 RN/L = 2.27 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
.052	-4.119	.19051	-.12396	.15160	.06790	-.04240	.03360	.04261	.10899
.055	-.007	.15173	-.09255	.14540	.00180	-.00190	.00220	.03910	.10630
.067	4.107	.16444	-.10608	.14620	-.06850	.04080	-.03000	.03990	.10630
GRADIENT		-.00317	.00217	-.00066	-.01658	.01011	-.00773	-.00033	-.00033

RUN NO. 99/ 0 RN/L = 2.27 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
4.242	-4.090	.32793	-.22008	.14480	.05580	-.03400	.02960	.03920	.10560
4.243	.004	.31015	-.20655	.14180	.00210	-.00230	.00180	.03900	.10280
4.242	4.125	.31507	-.21458	.14280	-.05700	.03280	-.02720	.03980	.10300
GRADIENT		-.00156	.00067	-.00024	-.01373	.00813	-.00691	.00007	-.00032

AMES11-019(IAB1) LVAP ORBITER ELVN-L HL SEALED

(RETO20) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000
 RUDDER = .000 SPOBRK = .000
 MACH = 1.400 RN/L = 2.250

RUN NO. 72/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
.017	-6.173	.13613	-.08246	.15150	.11410	-.07350	.04810	.04381	.10769
.018	-4.117	.12009	-.07001	.15220	.07440	-.04760	.03180	.04341	.10879
.024	-2.072	.10614	-.05858	.14990	.03450	-.02140	.01570	.04161	.10829
.023	-.006	.09212	-.04662	.14560	-.00170	.00090	.00110	.03880	.10680
.030	2.059	.09228	-.04699	.14500	-.03730	.02310	-.01380	.03810	.10690
.032	4.116	.09515	-.05205	.14620	-.07990	.05100	-.03010	.04031	.10589
.044	6.175	.09930	-.05785	.14410	-.12310	.07850	-.04660	.04051	.10359
GRADIENT		-.00309	.00231	-.00082	-.01847	.01173	-.00744	-.00047	-.00035

DATE 17 OCT 75

IAB1A - FORCE SOURCE DATA TABULATION

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AMES11-019(IAB1) LVAP ORBITER ELVN-L HL SEALED

(RET021) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-IB = .000 ELV-OB = .000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.250 RN/L = 2.250

RUN NO. 74/ 0 RN/L = 2.28 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
.038	-6.160	.13696	-.07438	.14960	.09980	-.06160	.04830	.04321	.10639
.045	-4.114	.12960	-.06979	.14810	.06680	-.04170	.03230	.04271	.10539
.047	-2.070	.11008	-.05454	.14710	.03220	-.02010	.01650	.04261	.10449
.054	-.008	.10055	-.04570	.14300	.00090	-.00100	.00180	.03920	.10380
.082	2.056	.10678	-.05197	.14200	-.03410	.02070	-.01470	.03860	.10340
.087	4.111	.11362	-.06048	.14360	-.07200	.04380	-.03110	.04151	.10209
.091	6.170	.11328	-.06181	.14460	-.10930	.06660	-.04740	.04251	.10209
GRADIENT		-.00171	.00103	-.00069	-.01671	.01029	-.00768	-.00031	-.00037

AMES11-019(IAB1) LVAP ORBITER ELVN-L HL SEALED

(RET022) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-IB = .000 ELV-OB = .000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.100 RN/L = 2.250

RUN NO. 76/ 0 RN/L = 2.26 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
.039	-6.151	.08757	-.02987	.14190	.10470	-.06720	.05190	.04562	.09628
.042	-4.101	.07388	-.01860	.14500	.06580	-.04180	.03470	.04572	.09928
.047	-2.062	.06060	-.00848	.14480	.02840	-.01740	.01740	.04632	.09848
.053	-.007	.04818	.00144	.14020	-.00180	.00120	.00110	.04592	.09428
.079	2.058	.06261	-.01095	.14220	-.03590	.02220	-.01720	.04542	.09578
.083	4.107	.06823	-.01859	.14390	-.07640	.04840	-.03500	.04813	.09577
.090	6.163	.07792	-.02934	.14200	-.12210	.07810	-.05300	.04873	.09327
GRADIENT		-.00045	-.00012	-.00023	-.01698	.01071	-.00847	.00019	-.00042

AMES11-019(1A81) LVAP ORBITER ELVN-L HL SEALED

(RETO23) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = .000 ELV-08 = .000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.400 RN/L = 2.250

RUN NO. 73/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

BETA0	ALPHA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
.033	-6.272	-.14354	.13213	.15500	-.00320	.00280	.00070	.03960	.11540
.011	-4.160	-.06916	.07330	.15020	-.00170	.00120	.00090	.04091	.10929
-.007	-2.069	.01252	.01177	.14810	-.00190	.00130	.00100	.04071	.10739
-.022	.024	.09368	-.04762	.14500	-.00180	.00110	.00110	.03860	.10640
-.018	2.134	.17494	-.10622	.14420	-.00130	.00050	.00100	.03800	.10620
-.008	4.218	.24895	-.15942	.14390	-.00110	.00010	.00080	.03870	.10520
-.002	5.273	.28144	-.18227	.14400	-.00090	-.00010	.00090	.03970	.10430
GRADIENT		.03810	-.02784	-.00079	.00009	-.00014	-.00001	-.00034	-.00045

AMES11-019(1A81) LVAP ORBITER ELVN-L HL SEALED

(RETO24) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = .000 ELV-08 = .000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.250 RN/L = 2.250

RUN NO. 75/ 0 RN/L = 2.28 GRADIENT INTERVAL = -5.00/ 5.00

BETA0	ALPHA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
.028	-6.248	-.15692	.14585	.14800	-.00200	.00180	.00140	.04041	.10759
.001	-4.131	-.07699	.08507	.14510	.00000	.00010	.00210	.04021	.10489
-.012	-2.038	.01262	.01830	.14410	.00020	-.00020	.00190	.04081	.10329
-.024	.059	.10034	-.04580	.14240	.00120	-.00120	.00190	.03960	.10280
-.019	2.162	.18277	-.10527	.14050	.00130	-.00140	.00160	.03900	.10150
-.013	4.248	.26243	-.16292	.13850	.00190	-.00180	.00170	.03860	.09990
.001	6.352	.32567	-.20660	.13550	.00110	-.00130	.00160	.03950	.09600
GRADIENT		.04051	-.02956	-.00080	.00023	-.00024	-.00005	-.00024	-.00056

DATE 17 OCT 75

IABIA - FORCE SOURCE DATA TABULATION

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AMES11-019(IAB1) LVAP ORBITER ELVN-L HL SEALED

(RETO25) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000
 RUDDER = .000 SPOBRK = .000
 MACH = 1.100 RN/L = 2.250

RUN NO. 77/ 0 RN/L = 2.26 GRADIENT INTERVAL = -5.00/ 5.00

BETA0	ALPHA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
.018	-6.220	-.21452	.18956	.14500	-.00470	.00370	.00020	.04772	.09728
.000	-4.109	-.13369	.13282	.14110	-.00320	.00240	.00050	.04552	.09558
-.015	-2.020	-.04548	.06982	.14040	-.00270	.00190	.00050	.04512	.09528
-.024	.066	.04493	.00422	.14020	-.00240	.00150	.00050	.04582	.09438
-.019	2.167	.13416	-.06090	.13710	-.00110	.00050	.00070	.04542	.09168
-.015	4.256	.22392	-.12693	.13500	-.00040	-.00010	.00100	.04492	.09008
.000	6.355	.29254	-.17510	.13160	-.00010	-.00030	.00100	.04472	.08688
GRADIENT		.04278	-.03109	-.00074	.00034	-.00031	.00006	-.00004	-.00070

AMES11-019(IAB1) LVAP ORBITER ELVN-L HL SEALED

(RETO26) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000
 RUDDER = .000 SPOBRK = .000
 MACH = .900 RN/L = 2.250

RUN NO. 78/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-6.182	-4.055	-.13685	.11152	.09240	.10300	-.06970	.03260	.03670	.05570
-6.173	-2.019	-.15507	.12581	.09380	.04870	-.03220	.01590	.03830	.05550
-6.160	.037	-.17319	.13883	.09110	-.00320	.00250	-.00020	.04021	.05089
-6.132	2.107	-.16585	.13235	.09340	-.05760	.03890	-.01690	.04111	.05229
-6.123	4.151	-.15220	.11857	.09420	-.11480	.07840	-.03390	.04161	.05259
GRADIENT		-.00202	.00100	.00016	-.02638	.01788	-.00807	.00061	-.00046

RUN NO. 79/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-4.098	-6.117	-.05192	.05008	.09340	.14670	-.10010	.04790	.04010	.05330
-4.086	-4.069	-.06227	.05869	.08930	.09730	-.06630	.03200	.03609	.05321
-4.071	.025	-.10176	.08848	.08840	-.00540	.00410	-.00090	.03950	.04890
-4.050	4.127	-.07479	.06418	.09160	-.10980	.07570	-.03370	.04000	.05160
-4.048	6.181	-.07345	.05974	.09260	-.16490	.11370	-.05080	.04301	.04959
GRADIENT		-.00152	.00067	.00028	-.02527	.01733	-.00802	.00048	-.00020

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OF POOR QUALITY

AMES11-019(IAB1) LVAP ORBITER ELVN-L HL SEALED

(RET026) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = .000 ELV-03 = .000
 RUDDER = .000 SPDRK = .000
 MACH = .900 RN/L = 2.250

RUN NO. 80/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-2.011	-6.126	.02128	-.00021	.08660	.13830	-.09540	.04650	.03670	.04990
-1.998	-2.045	-.00039	.01697	.08790	.04330	-.02910	.01520	.03629	.05161
-1.984	2.071	-.01157	.02393	.08740	-.05310	.03650	-.01680	.03900	.04840
-1.975	6.155	-.00142	.01183	.08790	-.15390	.10660	-.04900	.03840	.04950
GRADIENT		-.00272	.00169	-.00012	-.02342	.01594	-.00777	.00066	-.00078

RUN NO. 81/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
.071	-6.134	.09861	-.05120	.08560	.13370	-.09310	.04670	.03579	.04981
.076	-4.088	.09414	-.04840	.08590	.08880	-.06170	.03100	.03569	.05021
.079	.002	.05721	-.01927	.08160	-.00320	.00230	-.00020	.03419	.04741
.084	4.101	.07381	-.03610	.08540	-.09770	.06820	-.03290	.03579	.04961
.089	6.149	.07803	-.04239	.08590	-.14560	.10170	-.04890	.03910	.04680
GRADIENT		-.00248	.00150	-.00006	-.02277	.01586	-.00780	.00001	-.00007

RUN NO. 82/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
2.166	-6.124	.16366	-.09566	.08180	.12530	-.08750	.04460	.03619	.04561
2.174	-2.053	.14116	-.07740	.08210	.03920	-.02700	.01410	.03449	.04761
2.176	2.058	.12678	-.06700	.07960	-.04490	.03100	-.01560	.03439	.04521
2.176	6.147	.13532	-.07936	.07930	-.13690	.09610	-.04630	.03559	.04371
GRADIENT		-.00350	.00253	-.00061	-.02046	.01411	-.00722	-.00002	-.00058

RUN NO. 83/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
4.242	-6.110	.22776	-.13895	.08000	.11360	-.07810	.04140	.03389	.04611
4.246	-4.074	.21422	-.12755	.08120	.07590	-.05220	.02840	.03369	.04751
4.244	.001	.17662	-.09862	.07690	-.00210	.00140	.00030	.03359	.04331
4.243	4.105	.19318	-.11592	.07810	-.08350	.05770	-.02890	.03449	.04361
4.240	6.155	.19748	-.12281	.07850	-.12600	.08770	-.04310	.03670	.04180
GRADIENT		-.00256	.00146	-.00038	-.01949	.01344	-.00701	.00010	-.00048

DATE 17 OCT 75

IABIA - FORCE SOURCE DATA TABULATION

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AMES11-019(IAB1) LVAP ORBITER ELVN-L HL SEALED

(RETO26) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000
 RUDDER = .000 SPDBRK = .000
 MACH = .900 RN/L = 2.250

RUN NO. 84/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
6.337	-4.058	.27122	-.16715	.07880	.06760	-.04580	.02650	.03369	.04511
6.337	-2.026	.25450	-.15423	.07890	.03090	-.02050	.01290	.03519	.04471
6.335	.015	.24041	-.14300	.07680	-.00230	.00170	-.00020	.03469	.04211
6.332	2.074	.24436	-.14705	.07820	-.03700	.02470	-.01420	.03429	.04391
6.327	4.123	.25113	-.15525	.07880	-.07600	.05160	-.02810	.03439	.04441
GRADIENT		-.00245	.00151	-.00008	-.01735	.01173	-.00666	.00002	-.00011

AMES11-019(IAB1) LVAP L-SRB - SPDBRK HL UNSEAL

(RETL01) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000
 RUDDER = .000 SPDBRK = 55.000
 MACH = 1.100 RN/L = 3.000

RUN NO. 1/ 0 RN/L = 2.99 GRADIENT INTERVAL = -5.00/ 5.00

BETAL	ALPHAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
.216	-6.825	-.05450	.01320	.06210	-.00010	-.00850	-.01035	.03160	.03050
.180	-4.560	-.03980	.01120	.06160	.00740	-.01210	-.00747	.02960	.03200
.105	-2.337	-.02860	.01010	.06000	.02630	-.02220	-.00535	.02770	.03230
.081	-.131	-.01990	.00990	.05800	.03550	-.02310	-.00359	.00000	.05800
.109	2.068	-.01140	.00870	.05770	.03400	-.02850	-.00190	.02520	.03250
.140	4.247	-.00040	.00570	.06030	.02680	-.02460	.00025	.02730	.03300
.223	6.430	.01150	.00130	.06020	.01200	-.01800	.00254	.02800	.03220
.255	8.625	.02790	-.00530	.05970	.00100	-.01120	.00568	.02690	.03280
GRADIENT		.00436	-.00056	-.00022	.00212	-.00142	.00086	-.00033	.00011

AMES11-019(IAB1) LVAP L-SRB - SPOBRK HL SEALED

(RETL02) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000
 RUDDER = .000 SPOBRK = 55.000
 MACH = .600 RN/L = 3.200

RUN NO. 2/ 0 RN/L = 3.24 GRADIENT INTERVAL = -5.00/ 5.00

BETAL	ALPHAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
.088	-6.461	-.04620	.01330	.03810	-.00590	-.00240	-.00875	.02340	.01470
.047	-4.315	-.03460	.01050	.03790	.01250	-.01340	-.00647	.02290	.01500
.034	-2.199	-.02470	.00830	.03730	.02470	-.02170	-.00454	.02100	.01630
.026	-.091	-.01540	.00570	.03660	.03220	-.02690	-.00275	.01990	.01670
.027	2.046	-.00440	.00290	.03680	.03340	-.02760	-.00060	.01880	.01800
.033	4.175	.00530	.00140	.03680	.02810	-.02380	.00125	.01870	.01810
.073	6.303	.01600	-.00230	.03720	.01560	-.01680	.00328	.01950	.01770
GRADIENT		.00472	-.00111	-.00013	.00188	-.00126	.00091	-.00050	.00037

AMES11-019(IAB1) LVAP L-SRB - SPOBRK HL SEALED

(RETL03) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000
 RUDDER = .000 SPOBRK = 55.000
 MACH = .900 RN/L = 3.500

RUN NO. 3/ 0 RN/L = 3.51 GRADIENT INTERVAL = -5.00/ 5.00

BETAL	ALPHAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
.303	-6.749	-.04950	.01370	.04540	-.02340	.00330	-.00942	.02570	.01970
.202	-4.516	-.03810	.01250	.04430	-.00090	-.00840	-.00722	.02420	.02010
.127	-2.324	-.02890	.01150	.04390	.01600	-.01760	-.00536	.02300	.02090
.084	-.180	-.01890	.00730	.04460	.02780	-.02390	-.00340	.02150	.02310
.074	2.025	-.00800	.00430	.04370	.03040	-.02550	-.00129	.02080	.02290
.085	4.235	.00280	.00300	.04450	.02730	-.02360	.00078	.02190	.02260
.066	6.247	.01500	-.00160	.04460	.01430	-.01750	.00319	.02170	.02290
GRADIENT		.00470	-.00120	.00001	.00323	-.00175	.00092	-.00031	.00032

AMES11-019(1A81) LVAP L-SRB - ELYN-L HL UNSEAL

(RETL06) (14 OCT 75)

REFERENCE DATA

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SREF = 2690.0000 SQ.FT.  XMRP = 976.0000 IN. XT
LREF = 1297.0000 IN.      YMRP = .0000 IN. YT
BREF = 1297.0000 IN.      ZMRP = 400.0000 IN. ZT
SCALE = .0300

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PARAMETRIC DATA

ELV-18 =	8.000	ELV-08 "	4.000
RUDDER "	.000	SPDRBK =	.000
MACH =	.600	RN/L =	2.250

RUN NO. 11, 0 RN/L = 2.24 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

RUN NO. 10/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-4.228	-4.021	-.06400	.02920	.03960	.01740	-.01450	-.01212	.02230	.01730
-4.185	.045	-.03810	.01450	.03880	.01040	-.01040	-.00712	.02220	.01660
-4.113	4.125	-.00200	-.00730	.03590	.00720	-.01140	-.00017	.01960	.01630
	GRADIENT	.00761	-.00448	-.00045	-.00125	.00038	.00147	-.00033	-.00012

RUN NO. 6/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-.064	-6.063	-.04240	.02520	.04050	.04000	-.02960	-.00788	.02150	.01900
-.060	-4.038	-.03390	.01980	.03920	.03620	-.02290	-.00629	.00000	.03920
-.051	.017	-.01950	.00990	.03740	.03140	-.02420	-.00353	.02010	.01730
-.038	4.091	-.00440	-.00090	.03490	.02060	-.01870	-.00070	.01830	.01660
-.038	6.129	.00300	-.00690	.03490	.01750	-.01740	.00076	.01830	.01660
	GRADIENT	.00363	-.00255	-.00053	-.00192	.00052	.00069	.00225	-.00278

RUN NO. 7/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
4.193	-4.026	-.00170	.00910	.03810	.03590	-.02810	.00004	.02070	.01740
4.182	.019	.00160	.00550	.03700	.02750	-.02190	.00062	.01920	.01780
4.163	4.099	.00420	.00120	.03660	.01190	-.01210	.00102	.01900	.01760
	GRADIENT	.00073	-.00097	-.00018	-.00296	.00197	.00012	-.00021	.00002

RUN NO. 8/0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

RUN NO. 9/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

AMES11-019(IAB1) LVAP L-SRB - ELVN-L HL UNSEAL

(RETL07) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = 4.000
 RUDDER = .000 SPDRK = .000
 MACH = .900 RN/L = 2.250

RUN NO. 18/ 0 RN/L = 2.23 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-11.551	-3.891	-.08760	.03800	.05260	-.00770	-.00300	-.01664	.02700	.02560
-8.993	-1.869	-.07070	.02880	.05060	-.01550	.00120	-.01341	.02750	.02310
-6.417	.183	-.05060	.01620	.04590	-.01890	.00200	-.00965	.02570	.02020
-6.393	2.259	-.03080	.00300	.04390	-.02160	.00170	-.00580	.02400	.01990
-6.365	4.311	-.01290	-.00830	.04100	-.02250	.00050	-.00236	.02150	.01950
	GRADIENT	.00922	-.00577	-.00146	-.00174	.00036	.00176	-.00071	-.00075

RUN NO. 17/ 0 RN/L = 2.23 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-4.387	-6.009	-.08430	.04070	.05140	.01560	-.01700	-.01596	.02890	.02250
-4.345	-3.973	-.07010	.03330	.04980	.00800	-.01160	-.01328	.02720	.02260
-4.283	.133	-.03850	.01420	.04430	.00000	-.00790	-.00727	.02390	.02040
-4.247	4.233	-.00880	-.00580	.04100	-.00100	-.00990	-.00150	.02080	.02020
-4.229	6.299	.00230	-.01240	.03910	-.00200	-.01160	.00059	.01870	.02040
	GRADIENT	.00747	-.00476	-.00107	-.00110	.00021	.00144	-.00078	-.00029

RUN NO. 16/ 0 RN/L = 2.23 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-2.234	-6.051	-.06550	.03550	.05250	.03220	-.02580	-.01230	.02850	.02400
-2.188	-1.984	-.04290	.02220	.04940	.01860	-.01680	-.00797	.02610	.02330
-2.151	2.144	-.01640	.00340	.04220	.01300	-.01590	-.00293	.02060	.02160
-2.129	6.252	.00440	-.01090	.04110	.01020	-.01730	.00100	.01990	.02120
	GRADIENT	.00642	-.00455	-.00174	-.00136	.00022	.00122	-.00133	-.00041

RUN NO. 12/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-.112	-6.075	-.04950	.02970	.05060	.03860	-.02960	-.00922	.02700	.02360
-.099	-4.038	-.04050	.02390	.04910	.03210	-.02480	-.00754	.02530	.02380
-.096	.054	-.02060	.00940	.04540	.02660	-.02200	-.00376	.02230	.02310
-.081	4.152	-.00290	-.00330	.04200	.02000	-.01970	-.00032	.02010	.02190
-.078	6.202	.00530	-.00930	.04170	.01760	-.01900	.00125	.02030	.02140
	GRADIENT	.00459	-.00332	-.00067	-.00148	.00062	.00089	-.00063	-.00023

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IABIA - FORCE SOURCE DATA TABULATION

PAGE 33

AMES11-019(IAB1) LVAP L-SRB - ELVN-L HL UNSEAL

(RETL07) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 8.000 ELV-0B = 4.000
 RUDDER = .000 SPDBRK = .000
 MACH = .900 RN/L = 2.250

RUN NO. 13/ 0 RN/L = 2.24 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
2.065	-6.066	-.03050	.02240	.05040	.04300	-.03270	-.00558	.02600	.02440
2.071	-2.001	-.01700	.01250	.04660	.03200	-.02490	-.00297	.02310	.02350
2.052	2.100	-.00320	.00060	.04240	.02620	-.02210	-.00034	.02020	.02220
2.045	6.181	.00730	-.00800	.04370	.02120	-.01910	.00162	.02040	.02330
GRADIENT		.00337	-.00290	-.00102	-.00141	.00068	.00064	-.00071	-.00032

RUN NO. 14/ 0 RN/L = 2.24 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
4.216	-6.052	-.00950	.01460	.04910	.04220	-.03250	-.00147	.02460	.02450
4.225	-4.020	-.00600	.01240	.04770	.03610	-.02780	-.00082	.02360	.02410
4.198	.052	.00020	.00580	.04520	.02750	-.02230	.00028	.02160	.02360
4.170	4.154	.00490	-.00040	.04440	.01450	-.01480	.00119	.02150	.02290
4.149	6.208	.00810	-.00420	.04540	.01320	-.01470	.00183	.02190	.02350
GRADIENT		.00133	-.00157	-.00040	-.00264	.00159	.00025	-.00026	-.00015

RUN NO. 15/ 0 RN/L = 2.23 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
6.370	-3.971	.01230	.00480	.04750	.02320	-.02200	.00265	.02380	.02370
6.359	-1.940	.01160	.00440	.04630	.01660	-.01780	.00258	.02370	.02260
6.331	.106	.01190	.00210	.04520	.01230	-.01530	.00260	.02180	.02340
6.302	2.164	.01260	-.00090	.04440	.00720	-.01220	.00267	.02170	.02270
6.279	4.217	.01340	-.00340	.04520	-.00020	-.00820	.00278	.02220	.02300
GRADIENT		.00016	-.00106	-.00032	-.00274	.00162	.00002	-.00025	-.00006

ORIGINAL PAGE IS
OF POOR QUALITY

AMES11-019(IAB1) LVAP L-SRB - ELVN-L HL UNSEAL

(RETLOS) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = 4.000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.100 RN/L = 3.000

RUN NO. 0/ 0 RN/L = 2.99 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-.139	-6.112	-.05160	.03240	.06600	.04950	-.03520	-.00953	.02890	.03710
-.112	-4.042	-.04230	.02690	.06470	.04460	-.03270	-.00784	.02920	.03550
-.095	.079	-.02250	.01320	.06030	.03790	-.02930	-.00409	.02680	.03350
-.078	4.234	-.00430	-.00030	.05700	.02490	-.02220	-.00066	.02490	.03210
-.089	6.324	.00410	-.00760	.05470	.01960	-.01980	.00098	.02330	.03140
GRADIENT		.00459	-.00329	-.00093	-.00238	.00127	.00087	-.00052	-.00041

RUN NO. 0/ 0 RN/L = 2.99 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
2.130	-6.074	-.03170	.02610	.06560	.05230	-.03930	-.00574	.02860	.03700
2.125	-1.950	-.02170	.01840	.06100	.03910	-.03150	-.00388	.02740	.03360
2.079	2.185	-.00570	.00360	.05850	.02920	-.02520	-.00080	.02550	.03300
2.062	6.312	.00510	-.00620	.05760	.02300	-.02150	.00127	.02350	.03410
GRADIENT		.00387	-.00358	-.00060	-.00239	.00152	.00074	-.00046	-.00015

RUN NO. 0/ 0 RN/L = 2.99 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
4.315	-3.956	-.00940	.01500	.06380	.03800	-.03170	-.00143	.02840	.03540
4.282	.148	-.00380	.00890	.06170	.02830	-.02520	-.00037	.02720	.03450
4.231	4.305	.00480	-.00090	.05890	.01360	-.01690	.00115	.02510	.03380
GRADIENT		.00172	-.00193	-.00059	-.00295	.00179	.00031	-.00040	-.00019

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1A81A - FORCE SOURCE DATA TABULATION

PAGE 35

AMES11-019(1A81) LVAP L-SRB - ELVN-L HL UNSEAL

(RET109) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 8.000 ELV-08 = 4.000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.100 RN/L = 2.250

RUN NO. 25/ 0 RN/L = 2.24 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-6.685	-3.892	-.09660	.04010	.06430	-.00700	-.00420	-.01831	.03330	.03100
-6.637	-1.831	-.07650	.02840	.06450	-.01420	-.00020	-.01445	.03210	.03240
-6.566	.236	-.05460	.01560	.06280	-.01270	-.00320	-.01029	.03150	.03130
-6.536	2.301	-.03490	.00280	.06020	-.01070	-.00590	-.00648	.02960	.03060
-6.515	4.365	-.01490	-.01090	.05620	-.01360	-.00530	-.00266	.02700	.02920
GRADIENT		.00993	-.00618	-.00099	-.00047	-.00038	.00190	-.00073	-.00026

RUN NO. 24/ 0 RN/L = 2.24 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-4.512	-6.037	-.09290	.04470	.06640	.02600	-.02060	-.01759	.03110	.03530
-4.469	-3.982	-.07570	.03480	.06510	.01860	-.01680	-.01424	.03130	.03380
-4.387	.156	-.04140	.01410	.06300	.01020	-.01420	-.00769	.03010	.03290
-4.353	4.277	-.00750	-.00990	.05880	.00580	-.01420	-.00120	.02780	.03100
-4.341	6.342	.00440	-.01820	.05380	.00590	-.01620	.00180	.02450	.02930
GRADIENT		.00826	-.00541	-.00076	-.00155	.00032	.00158	-.00042	-.00034

RUN NO. 23/ 0 RN/L = 2.24 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-2.313	-6.070	-.07230	.03880	.06550	.03840	-.02790	-.01353	.03010	.03540
-2.252	-1.981	-.04550	.02320	.06260	.03150	-.02470	-.00848	.02870	.03390
-2.203	2.149	-.01660	.00310	.06060	.02510	-.02200	-.00291	.02770	.03290
-2.183	6.267	.00370	-.01150	.05360	.01770	-.02070	.00093	.02420	.02940
GRADIENT		.00700	-.00487	-.00048	-.00155	.00065	.00135	-.00024	-.00024

RUN NO. 26/ 0 RN/L = 2.24 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-.123	-6.088	-.05210	.03250	.06590	.04810	-.03420	-.00962	.02940	.03650
-.102	-4.041	-.04250	.02690	.06450	.04440	-.03220	-.00782	.02920	.03530
-.085	.061	-.02280	.01340	.06040	.03680	-.02880	-.00411	.02650	.03390
-.071	4.175	-.00480	.00000	.05660	.02520	-.02240	-.00065	.02480	.03180
-.075	6.248	.00370	-.00720	.05430	.01980	-.02020	.00093	.02370	.03060
GRADIENT		.00459	-.00327	-.00096	-.00234	.00119	.00087	-.00054	-.00043

DATE 17 OCT 75

TABIA - FORCE SOURCE DATA TABULATION

PAGE 36

AMES11-019(TAB1) LVAP L-SRB - ELVN-L HL UNSEAL

(RETLOS) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 8.000 ELV-0B = 4.000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.100 RN/L = 2.250

RUN NO. 27/ 0 RN/L = 2.24 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
2.087	-6.059	-.03320	.02690	.06520	.05260	-.03930	-.00502	.02920	.03600
2.087	-1.974	-.02290	.01920	.06100	.04010	-.03230	-.00405	.02750	.03350
2.059	2.141	-.00630	.00410	.05870	.02960	-.02550	-.00093	.02600	.03270
2.042	6.264	.00550	-.00650	.05620	.01890	-.02030	.00132	.02400	.03220
	GRADIENT	.00403	-.00367	-.00056	-.00255	.00165	.00076	-.00036	-.00019

RUN NO. 28/ 0 RN/L = 2.24 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
4.211	-6.006	-.01550	.01920	.06430	.04290	-.03520	-.00259	.02890	.03540
4.210	-3.973	-.01160	.01580	.06360	.03700	-.03070	-.00188	.02900	.03460
4.197	.111	-.00360	.00870	.06180	.02880	-.02550	-.00039	.02760	.03420
4.157	4.224	.00400	-.00040	.05850	.01560	-.01800	.00105	.02570	.03280
4.141	6.306	.00680	-.00380	.05700	.00810	-.01490	.00153	.02440	.03260
	GRADIENT	.00190	-.00198	-.00062	-.00261	.00155	.00036	-.00040	-.00022

RUN NO. 22/ 0 RN/L = 2.24 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
6.384	-3.906	.01090	.00490	.06320	.02340	-.02480	.00251	.02890	.03430
6.375	-1.871	.01010	.00470	.06330	.01770	-.02120	.00230	.02990	.03340
6.351	.181	.00870	.00390	.06150	.01250	-.01830	.00206	.02780	.03370
6.312	2.226	.01060	-.00050	.06020	.00860	-.01500	.00229	.02690	.03330
6.288	4.285	.01290	-.00420	.05840	.00020	-.01010	.00278	.02550	.03290
	GRADIENT	.00022	-.00114	-.00062	-.00271	.00174	.00003	-.00048	-.00014

DATE 17 OCT 75

IABIA - FORCE SOURCE DATA TABULATION

PAGE 37

AMES11-019(IAB1) LVAP L-SRB - ELVN-L HL SE ED

(RETL10) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = 4.000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.100 RN/L = 2.250

RUN NO. 29/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

BETAL	ALPHAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
.220	-6.574	-.05420	.01520	.06290	-.01100	-.00420	-.01024	.03200	.03090
.143	-4.379	-.04200	.01420	.06270	.00920	-.01360	-.00782	.03010	.03260
.079	-2.212	-.03180	.01380	.06200	.02690	-.02250	-.00588	.02860	.03340
.059	-.065	-.02280	.01330	.05990	.03680	-.02870	-.00411	.02650	.03340
.084	2.085	-.01540	.01250	.05920	.03470	-.02920	-.00265	.02650	.03270
.100	4.216	-.00450	.00920	.06150	.02920	-.02580	-.00054	.02730	.03420
.170	6.360	.00830	.00420	.06140	.01290	-.01850	.00201	.02740	.03400
GRADIENT		.00425	-.00053	-.00024	.00223	-.00145	.00083	-.00036	.00012

AMES11-019(IAB1) LVAP L-SRB - ELVN-L HL SEALED

(RETL11) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = 4.000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.250 RN/L = 2.250

RUN NO. 30/ 0 RN/L = 2.27 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-6.775	-3.911	-.10230	.04080	.05790	-.01720	.00660	-.01962	.02590	.03200
-6.726	-1.850	-.08130	.02830	.06000	-.02510	.01080	-.01560	.02710	.03290
-6.672	.245	-.05790	.01300	.05770	-.02520	.00800	-.01107	.02570	.03200
-6.639	2.332	-.03640	-.00130	.05610	-.02070	.00140	-.00686	.02550	.03060
-6.606	4.393	-.01720	-.01370	.05250	-.01930	-.00130	-.00314	.02390	.02860
GRADIENT		.01035	-.00667	-.00071	.00001	-.00121	.00201	-.00027	-.00044

RUN NO. 31/ 0 RN/L = 2.27 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-4.579	-6.041	-.09770	.04560	.06150	.01140	-.00830	-.01864	.02550	.03600
-4.532	-3.988	-.08050	.03570	.05800	.00540	-.00540	-.01530	.02430	.03370
-4.453	.137	-.04410	.01310	.05550	.00290	-.00700	-.00833	.02330	.03170
-4.393	4.293	-.00860	-.01040	.05410	.00120	-.01050	-.00152	.02340	.03070
-4.397	6.362	.00090	-.01760	.04910	.00120	-.01280	.00035	.02120	.02790
GRADIENT		.00868	-.00557	-.00047	-.00051	-.00062	.00166	-.00011	-.00036

ORIGINAL PAGE IS
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AMES11-019(IAB1) LVAP L-SRB - ELVN-L HL SEALED

(RETL11) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 8.000 ELV-0B = 4.000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.250 RN/L = 2.250

RUN NO. 32/ 0 RN/L = 2.27 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-2.330	-6.083	-.07460	.03960	.06120	.02640	-.01730	-.01412	.02420	.03700
-2.276	-1.980	-.04830	.02320	.05660	.02110	-.01690	-.00906	.02380	.03280
-2.234	2.154	-.02010	.00440	.05470	.02180	-.01960	-.00366	.02290	.03180
-2.212	6.290	.00070	-.01010	.04930	.01740	-.02050	.00027	.02030	.02900
	GRADIENT	.00682	-.00455	-.00046	.00017	-.00065	.00130	-.00022	-.00024

RUN NO. 33/ 0 RN/L = 2.27 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-.100	-6.115	-.05240	.03330	.06250	.04380	-.02800	-.00984	.02400	.03850
-.073	-4.067	-.04290	.02780	.05970	.04050	-.02670	-.00797	.02340	.03630
-.074	.055	-.02340	.01330	.05350	.03350	-.02530	-.00434	.02050	.03300
-.055	4.187	-.00770	.00220	.05170	.02630	-.02310	-.00127	.02050	.03120
-.065	6.257	.00050	-.00480	.04980	.02030	-.02080	.00029	.01990	.02990
	GRADIENT	.00426	-.00310	-.00097	-.00172	.00044	.00081	-.00035	-.00062

RUN NO. 34/ 0 RN/L = 2.27 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
1.003	-6.101	-.04210	.03020	.06260	.04730	-.03150	-.00786	.02440	.03820
1.024	-2.001	-.02910	.02180	.05600	.04120	-.03050	-.00534	.02210	.03390
1.015	2.136	-.01270	.00840	.05170	.03010	-.02550	-.00221	.02050	.03120
.993	6.269	.00330	-.00570	.05110	.01860	-.02080	.00087	.02070	.03040
	GRADIENT	.00396	-.00324	-.00104	-.00258	.00121	.00076	-.00039	-.00065

RUN NO. 35/ 0 RN/L = 2.28 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
3.196	-6.054	-.02450	.02510	.06290	.04590	-.03370	-.00446	.02390	.03900
3.186	-4.004	-.02060	.02130	.05830	.03830	-.02960	-.00366	.02260	.03570
3.158	.099	-.01020	.01150	.05490	.02700	-.02350	-.00174	.02160	.03330
3.123	4.226	.00050	.00040	.05370	.01780	-.01970	.00039	.02160	.03210
3.111	6.299	.00440	-.00340	.05250	.01420	-.01880	.00110	.02060	.03190
	GRADIENT	.00256	-.00254	-.00056	-.00249	.00120	-.00049	-.00012	-.00044

DATE 17 OCT 75

1A81A - FORCE SOURCE DATA TABULATION

PAGE 39

AMES11-019(1A81) LVAP L-SRB - ELVN-L HL SEALED

(RETL11) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 8.000 ELV-08 = 4.000
 RUDDER = .000 SPDGRK = .000
 MACH = 1.250 RN/L = 2.250

RUN NO. 36/ 0 RN/L = 2.28 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
5.340	-3.935	-.00120	.01210	.06040	.02810	-.02620	.00014	.02390	.03650
5.331	-1.897	.00090	.00980	.06010	.02400	-.02390	.00055	.02480	.03530
5.309	.161	.00380	.00590	.05760	.01700	-.01980	.00107	.02290	.03470
5.273	2.221	.00580	.00170	.05570	.01160	-.01650	.00134	.02220	.03350
5.249	4.291	.00830	-.00210	.05380	.00550	-.01420	.00191	.02160	.03220
GRADIENT		.00116	-.00177	-.00086	-.00280	.00153	.00021	-.00035	-.00051

AMES11-019(1A81) LVAP L-SRB - ELVN-L HL SEALED

(RETL12) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 8.000 ELV-08 = .000
 RUDDER = .000 SPDGRK = .000
 MACH = 1.400 RN/L = 2.250

RUN NO. 0/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-6.839	-3.931	-.10440	.04150	.05810	-.02270	.01270	-.02003	.02470	.03340
-6.794	-1.861	-.08310	.02830	.05610	-.02930	.01500	-.01600	.02460	.03150
-6.757	.212	-.06110	.01400	.05430	-.03190	.01400	-.01180	.02440	.02990
-6.700	2.318	-.04040	.00090	.05340	-.03020	.01020	-.00771	.02370	.02970
-6.673	4.383	-.01970	-.01300	.05080	-.02460	.00400	-.00371	.02280	.02800
GRADIENT		.01019	-.00656	-.00083	-.00022	-.00107	.00197	-.00023	-.00061

RUN NO. 0/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-4.603	-6.059	-.09710	.04590	.06050	.00630	-.00350	-.01861	.02500	.03550
-4.571	-3.997	-.08010	.03500	.05760	.00050	-.00100	-.01534	.02400	.03360
-4.508	.123	-.04690	.01380	.05340	-.00510	-.00110	-.00902	.02290	.03050
-4.461	4.298	-.01480	-.00770	.05010	-.00430	-.00690	-.00272	.02150	.02860
-4.418	6.382	.00340	-.01850	.04540	-.00550	-.00860	.00081	.01840	.02700
GRADIENT		.00787	-.00515	-.00090	-.00058	-.00071	.00152	-.00030	-.00060

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IABIA - FORCE SOURCE DATA TABULATION

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AMES11-019(IAB1) LVAP L-SRB - ELVN-L HL SEALED

(RETL12) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 8.000 ELV-08 = .000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.400 RN/L = 2.250

RUN NO. 0/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-2.374	-6.107	-.07240	.03870	.05980	.02490	-.01470	-.01377	.02390	.03590
-2.326	-1.992	-.04750	.02310	.05560	.01820	-.01310	-.00905	.02220	.03340
-2.286	2.162	-.02210	.00500	.05110	.01190	-.01220	-.00414	.02060	.03050
-2.233	6.302	.00500	-.01240	.04560	.01300	-.01780	.00113	.01750	.02810
GRADIENT		.00611	-.00436	-.00108	-.00152	.00022	.00118	-.00039	-.00070

RUN NO. 0/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-.143	-6.129	-.04940	.03180	.06070	.04200	-.02610	-.00928	.02390	.03680
-.130	-4.076	-.04050	.02590	.05800	.03850	-.02470	-.00764	.02300	.03500
-.115	.043	-.02570	.01570	.05250	.03300	-.02460	-.00473	.02060	.03190
-.109	4.202	-.00920	.00340	.04750	.01850	-.01860	-.00155	.01870	.02880
-.080	6.260	.00840	-.00830	.04570	.02020	-.02070	.00184	.01650	.02920
GRADIENT		.00378	-.00272	-.00127	-.00242	.00074	.00074	-.00052	-.00075

RUN NO. 0/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
2.105	-6.091	-.03270	-.02930	.06130	.04850	-.03330	-.00603	.02360	.03770
2.097	-1.985	-.02130	.02010	.05420	.03770	-.02880	-.00393	.02030	.03390
2.064	2.166	-.01070	.00950	.04990	.02120	-.02030	-.00193	.01930	.03060
2.067	6.296	.00820	-.00500	.04770	.01570	-.01950	.00177	.01740	.03030
GRADIENT		.00255	-.00255	-.00104	-.00397	.00205	.00048	-.00024	-.00079

RUN NO. 0/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
4.262	-6.014	-.01420	.02180	.05960	.04200	-.03380	-.00249	.02210	.03750
4.245	-3.964	-.01080	.01810	.05830	.03430	-.02930	-.00177	.02270	.03560
4.213	.131	-.00460	.01090	.05460	.02130	-.02180	-.00058	.02170	.03290
4.173	4.272	.00200	.00280	.05050	.00780	-.01480	.00057	.01960	.03090
4.152	6.366	.00410	.00020	.04770	.00430	-.01470	.00098	.01750	.03020
GRADIENT		.00155	-.00186	-.00095	-.00322	.00176	.00028	-.00038	-.00057

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IABIA - FORCE SOURCE DATA TABULATION

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AMES11-019(IAB1) LVAP L-SRB - ELVN-L HL SEALED

(RETL12) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = .000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.400 RN/L = 2.250

RUN NO. 0/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
6.393	-3.892	.01910	.00700	.05890	.02310	-.02470	.00230	.02310	.03580
6.380	-1.857	.00930	.00650	.05830	.01670	-.02060	.00209	.02290	.03540
6.357	.199	.00810	.00570	.05570	.00920	-.01640	.00183	.02180	.03390
6.321	2.263	.00850	.00290	.05350	-.00020	-.00990	.00188	.02080	.03270
6.302	4.335	.00730	.00260	.05080	-.00480	-.00820	.00162	.01930	.03150
GRADIENT		-.00031	-.00060	-.00102	-.00353	.00212	-.00008	-.00047	-.00055

AMES11-019(IAB1) LVAP L-SRB - ELVN-L HL SEALED

(RETL13) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = .000
 RUDDER = .000 SPDBRK = .000
 MACH = .600 RN/L = 2.250

RUN NO. 42/ 0 RN/L = 2.26 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-6.278	.048	-.04850	.01640	.03930	-.00860	.00110	-.00923	.02380	.01550
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 41/ 0 RN/L = 2.26 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-4.240	-4.023	-.06280	.02820	.03960	.01750	-.01460	-.01186	.02310	.01650
-4.170	.036	-.03670	.01360	.03890	.01010	-.01000	-.00688	.02240	.01650
-4.138	4.121	-.00910	-.00420	.03590	.00660	-.01090	-.00162	.01970	.01620
GRADIENT		.00659	-.00398	-.00045	-.00134	.00045	.00126	-.00042	-.00004

RUN NO. 37/ 0 RN/L = 2.24 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-.042	-6.070	-.04090	.02430	.04090	.04000	-.02930	-.00760	.02220	.01870
-.035	-4.042	-.03250	.01870	.03920	.03630	-.02700	-.00605	.02150	.01770
-.041	.008	-.01790	.00880	.03730	.02950	-.02300	-.00321	.02010	.01720
-.008	4.102	-.00320	-.00170	.03500	.02030	-.01820	-.00044	.01820	.01680
-.006	6.132	.00500	-.00800	.03520	.01740	-.01700	.00113	.01790	.01730
GRADIENT		.00360	-.00251	-.00052	-.00197	.00108	.00069	-.00041	-.00011

AMES11-019(IA81) LVAP L-SRB - ELVN-L HL SEALED

(RETL13) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 8.000 ELV-0B = .000
 RUDDER = .000 SPDBRK = .000
 MACH = .600 RN/L = 2.250

RUN NO. 38/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
4.194	-4.025	.00000	.00790	.03780	.03440	-.02700	.00030	.02060	.01720
4.183	.022	.00300	.00450	.03690	.02660	-.02120	.00086	.01990	.01700
4.165	4.102	.00590	.00020	.03650	.01000	-.01040	.00138	.01780	.01870
GRADIENT		.00073	-.00095	-.00016	-.00300	.00204	.00013	-.00034	.00018

RUN NO. 39/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
8.381	.049	.02360	-.00190	.03630	.00020	-.00600	.00472	.02020	.01810
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 40/ 0 RN/L = 2.27 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
10.482	.093	.03900	-.00730	.03900	-.02010	.00480	.00776	.02120	.01780
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

AMES11-019(IA81) LVAP L-SRB - ELVN-L HL SEALED

(RETL14) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 8.000 ELV-0B = -4.000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.400 RN/L = 2.250

RUN NO. 51/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-6.851	-3.920	-.10390	.04100	.05810	-.02450	.01430	-.01993	.02440	.03370
-6.807	-1.850	-.08310	.02780	.05600	-.03070	.01610	-.01600	.02450	.03150
-6.748	.240	-.06060	.01320	.05370	-.03370	.01510	-.01171	.02470	.02900
-6.708	2.327	-.03960	.00010	.05310	-.03200	.01140	-.00760	.02400	.02910
-6.687	4.406	-.02020	-.01320	.05080	-.02920	.00640	-.00380	.02320	.02760
GRADIENT		.01013	-.00653	-.00084	-.00051	-.00098	.00195	-.00014	-.00070

DATE 17 OCT 75

IABIA - FORCE SOURCE DATA TABULATION

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AMES11-019(IAB1) LVAP L-SRB - ELVN-L HL SEALED

(RETL14) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = 8.000 ELV-09 = -4.000
 RUDDER = .000 SPOBRK = .000
 MACH = 1.400 RN/L = 2.250

RUN NO. 52/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-4.622	-6.056	-.09640	.04500	.06010	.00450	-.00190	-.01844	.02500	.03510
-4.590	-3.986	-.07950	.03410	.05740	-.00190	.00070	-.01521	.02380	.03360
-4.520	.156	-.04610	.01300	.05310	-.00730	.00050	-.00881	.02280	.03030
-4.472	4.310	-.01390	-.00850	.04980	-.00570	-.00600	-.00257	.02170	.02810
-4.424	6.390	.00530	-.01990	.04590	-.00440	-.00920	.00115	.01940	.02750
	GRADIENT	.00791	-.00514	-.00092	-.00046	-.00081	.00152	-.00025	-.00066

RUN NO. 53/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-2.371	-6.107	-.07290	.03860	.05950	.02330	-.01320	-.01396	.02400	.03550
-2.325	-1.981	-.04770	.02260	.05420	.01740	-.01300	-.00903	.02200	.03220
-2.294	2.169	-.02130	.00430	.05110	.01110	-.01170	-.00403	.02130	.02980
-2.242	6.295	.00490	-.01250	.04580	.01620	-.01940	.00109	.01810	.02770
	GRADIENT	.00636	-.00441	-.00075	-.00152	.00031	.00120	-.00017	-.00058

RUN NO. 54/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-.129	-6.132	-.04810	.03070	.06060	.04040	-.02490	-.00908	.02430	.03630
-.116	-4.074	-.03930	.02510	.05790	.03790	-.02410	-.00738	.02280	.03510
-.102	-2.010	-.03090	.01960	.05460	.03480	-.02400	-.00584	.02140	.03320
-.108	.063	-.02350	.01390	.05170	.03020	-.02280	-.00438	.02040	.03130
-.101	4.195	-.00890	.00290	.04760	.02110	-.01950	-.00154	.01880	.02880
-.069	6.266	.00910	-.00900	.04610	.02080	-.02120	.00192	.01770	.02840
	GRADIENT	.00365	-.00269	-.00123	-.00207	.00059	.00070	-.00047	-.00076

RUN NO. 55/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
2.101	-6.086	-.03110	.02800	.06100	.04580	-.03140	-.00571	.02370	.03730
2.088	-1.966	-.02100	.01940	.05350	.03490	-.02730	-.00381	.02090	.03260
2.053	2.173	-.00980	.00850	.04900	.01900	-.01890	-.00169	.01970	.02930
2.055	6.294	.00870	-.00590	.04800	.01880	-.02140	.00186	.01820	.02980
	GRADIENT	.00271	-.00263	-.00109	-.00384	.00203	.00051	-.00029	-.00080

DATE 17 OCT 75

IAB1A - FORCE SOURCE DATA TABULATION

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AMES11-019(IAB1) LVAP L-SRB - ELVN-L HL SEALED

(RETL14) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 8.000 ELV-0B = -4.000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.400 RN/L = 2.250

RUN NO. 56/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
4.258	-6.000	-.01260	.02050	.05910	.03930	-.03190	-.00217	.02220	.03690
4.237	-3.948	-.01100	.01770	.05820	.03210	-.02750	-.00185	.02260	.03560
4.199	.148	-.00470	.01040	.05380	.01930	-.02010	-.00072	.02110	.03270
4.152	4.273	.00070	.00300	.05000	.00810	-.01440	.00037	.01940	.03060
4.144	6.373	.00310	.00040	.04860	.00480	-.01560	.00080	.01840	.03020
	GRADIENT	.00142	-.00179	-.00100	-.00292	.00159	.00027	-.00039	-.00061

RUN NO. 57/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
6.390	-3.876	.01150	.00570	.05830	.02000	-.02270	.00254	.02320	.03510
6.373	-1.841	.01010	.00550	.05780	.01400	-.01880	.00230	.02320	.03460
6.348	.208	.00800	.00340	.05490	.00710	-.01490	.00179	.02210	.03280
6.313	2.274	.00870	.00230	.05280	-.00230	-.00840	.00186	.02060	.03220
6.293	4.334	.00770	.00190	.04990	-.00410	-.00870	.00167	.01970	.03020
	GRADIENT	-.00044	-.00053	-.00106	-.00314	.00187	-.00011	-.00047	-.00059

AMES11-019(IAB1) LVAP L-SRB - ELVN-L HL SEALED

(RETL15) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 8.000 ELV-0B = 6.000
 RUDDER = .000 SPDBRK = .000
 MACH = .900 RN/L = 2.250

RUN NO. 65/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-6.521	-3.917	-.08830	.03820	.04970	-.00710	-.00440	-.01681	.02860	.02110
-6.479	-1.880	-.07160	.02940	.04900	-.01480	.00030	-.01356	.02740	.02160
-6.421	.187	-.05100	.01650	.04650	-.01940	.00200	-.00970	.02690	.01960
-6.400	2.259	-.03140	.00340	.04400	-.02170	.00160	-.00593	.02400	.02000
-6.375	4.306	-.01330	-.00820	.04140	-.02040	-.00050	-.00244	.02140	.02000
	GRADIENT	.00924	-.00577	-.00105	-.00163	.00044	.00177	-.00086	-.00018

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IABIA - FORCE SOURCE DATA TABULATION

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AMES11-019(IAB1) LVAP L-SRB - ELVN-L HL SEALED

(RETL15) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = 6.000
 RUDDER = .000 SPDBRK = .000
 MACH = .900 RN/L = 2.250

RUN NO. 66/ 0 RN/L = 2.26 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-4.386	-6.016	-.08430	.04080	.05120	.01730	-.01770	-.01596	.02820	.02300
-4.343	-3.973	-.07020	.03340	.04950	.00980	-.01230	-.01322	.02620	.02330
-4.288	.129	-.04060	.01550	.04530	-.00040	-.00830	-.00768	.02460	.02070
-4.251	4.243	-.00960	-.00540	.04150	-.00200	-.00980	-.00171	.02220	.01930
-4.229	6.302	.00200	-.01240	.03950	-.00080	-.01250	.00047	.02030	.01920
	GRADIENT	.00738	-.00472	-.00097	-.00144	.00030	.00140	-.00049	-.00049

RUN NO. 67/ 0 RN/L = 2.26 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-2.232	-6.053	-.06450	.03500	.05110	.03340	-.02620	-.01211	.02690	.02420
-2.183	-1.977	-.04310	.02250	.04900	.01940	-.01710	-.00805	.02490	.02410
-2.167	2.150	-.01730	.00410	.04180	.01380	-.01640	-.00318	.02050	.02130
-2.142	6.253	.00390	-.01030	.04090	.01130	-.01780	.00091	.01960	.02130
	GRADIENT	.00625	-.00446	-.00174	-.00136	.00017	.00118	-.00107	-.00068

RUN NO. 68/ 0 RN/L = 2.26 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-.091	-6.072	-.05030	.03040	.05070	.03970	-.03030	-.00933	.02780	.02290
-.077	-4.041	-.04120	.02460	.04930	.03440	-.02600	-.00761	.02570	.02360
-.074	.052	-.02130	.01020	.04570	.02760	-.02240	-.00393	.02220	.02350
-.060	4.153	-.00300	-.00290	.04200	.02150	-.02020	-.00036	.01970	.02230
-.056	6.186	.00500	-.00890	.04180	.02420	-.02180	.00113	.01950	.02230
	GRADIENT	.00466	-.00336	-.00089	-.00157	.00071	.00089	-.00073	-.00016

RUN NO. 69/ 0 RN/L = 2.26 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
2.065	-6.067	-.03130	.02310	.04970	.04280	-.03240	-.00569	.02520	.02450
2.071	-2.005	-.01860	.01380	.04670	.03300	-.02570	-.00328	.02440	.02230
2.055	2.097	-.00470	.00200	.04240	.02700	-.02250	-.00062	.02070	.02170
2.047	6.187	.00670	-.00710	.04340	.02110	-.01890	.00149	.01940	.02400
	GRADIENT	.00339	-.00288	-.00105	-.00146	.00078	.00065	-.00090	-.00015

ORIGINAL PAGE IS
 OF POOR QUALITY

AMES11-019(IAB1) LVAP L-SRB - ELVN-L HL SEALED

(RETL15) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = 6.000
 RUDDER = .000 SPDGRK = .000
 MACH = .900 RN/L = 2.250

RUN NO. 70/ 0 RN/L = 2.26 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
4.209	-6.046	-.01040	.01510	.04850	.04230	-.03270	-.00162	.02430	.02420
4.216	-4.014	-.00750	.01320	.04740	.03650	-.02800	-.00110	.02270	.02470
4.195	.062	-.00150	.00700	.04520	.02610	-.02160	.00002	.02130	.02390
4.185	4.158	.00800	-.00110	.04410	.01440	-.01490	.00179	.02100	.02310
4.151	6.210	.00720	-.00290	.04470	.01420	-.01540	.00158	.02170	.02300
	GRADIENT	.00190	-.00175	-.00040	-.00270	.00160	.00035	-.00021	-.00020

RUN NO. 71/ 0 RN/L = 2.26 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
5.300	-3.994	.00180	.00990	.04740	.03160	-.02620	.00070	.02420	.02320
5.292	-1.960	.00300	.00810	.04740	.02520	-.02160	.00096	.02290	.02450
5.274	.086	.00450	.00570	.04590	.01960	-.01870	.00114	.02260	.02330
5.253	2.139	.00700	.00200	.04450	.01420	-.01500	.00160	.02090	.02360
5.237	4.193	.00780	.00010	.04510	.00770	-.01210	.00171	.02180	.02330
	GRADIENT	.00078	-.00126	-.00037	-.00287	.00170	.00013	-.00033	-.00003

AMES11-019(IAB1) LVAP L-SRB - ELVN-L HL SEALED

(RETL16) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = 6.000
 RUDDER = .000 SPDGRK = .000
 MACH = 1.100 RN/L = 2.250

RUN NO. 58/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-6.698	-3.888	-.09810	.04090	.06500	-.00530	-.00500	-.01859	.03290	.03210
-6.649	-1.836	-.07830	.02950	.06410	-.01270	-.00120	-.01485	.03220	.03190
-6.575	.242	-.05650	.01630	.06360	-.01250	-.00320	-.01062	.03200	.03160
-6.541	2.309	-.03560	.00290	.06040	-.01010	-.00660	-.00665	.03020	.03020
-6.521	4.360	-.01490	-.01140	.05690	-.01180	-.00650	-.00266	.02820	.02870
	GRADIENT	.01013	-.00636	-.00096	-.00050	-.00041	.00194	-.00055	-.00041

DATE 17 OCT 75

IAB1A - FORCE SOURCE DATA TABULATION

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AMES11-019(IAB1) LVAP L-SRB - ELVN-L HL SEALED

(RETL16) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 8.000 ELV-0B = 6.000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.100 RN/L = 2.250

RUN NO. 59/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-4.503	-6.042	-.09400	.04570	.06650	.02850	-.02200	-.01771	.03110	.03540
-4.460	-3.983	-.07710	.03580	.06540	.02090	-.01800	-.01458	.03110	.03430
-4.394	.152	-.04250	.01470	.06300	.01130	-.01490	-.00792	.03030	.03270
-4.365	4.270	-.00890	-.00940	.05910	.00860	-.01560	-.00154	.02790	.03120
-4.350	6.336	.00420	-.01840	.05390	.00800	-.01730	.00102	.02450	.02940
GRADIENT		.00826	-.00548	-.00076	-.00149	.00029	.00158	-.00039	-.00038

RUN NO. 60/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-2.250	-6.072	-.07330	.03970	.06610	.04070	-.02920	-.01371	.03000	.03610
-2.210	-1.985	-.04680	.02430	.06280	.03420	-.02640	-.00868	.02930	.03350
-2.210	2.153	-.01720	.00320	.06040	.02530	-.02230	-.00304	.02760	.03280
-2.195	6.268	.00350	-.01170	.05400	.01940	-.02170	.00085	.02460	.02940
GRADIENT		.00715	-.00510	-.00058	-.00215	.00099	.00136	-.00041	-.00017

RUN NO. 61/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-.102	-6.086	-.05240	.03290	.06550	.05100	-.03590	-.00974	.02870	.03680
-.078	-4.031	-.04320	.02750	.06460	.04640	-.03360	-.00799	.02910	.03550
-.081	.074	-.02310	.01380	.06000	.03950	-.03070	-.00412	.02650	.03350
-.051	4.179	-.00450	-.00030	.05690	.02700	-.02360	-.00064	.02530	.03160
-.059	6.233	.00350	-.00730	.05470	.02400	-.02230	.00095	.02350	.03120
GRADIENT		.00471	-.00338	-.00094	-.00236	.00122	.00090	-.00046	-.00048

RUN NO. 62/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
2.094	-6.060	-.03430	.02770	.06580	.05490	-.04070	-.00615	.02890	.03690
2.097	-1.975	-.02320	.01940	.06090	.04200	-.03340	-.00416	.02710	.03380
2.067	2.145	-.00660	.00430	.05860	.03120	-.02660	-.00095	.02590	.03270
2.051	6.256	.00560	-.00670	.05650	.02110	-.02140	.00136	.02350	.03300
GRADIENT		.00403	-.00367	-.00056	-.00262	.00165	.00078	-.00029	-.00027

AMES11-019(IA81) LVAP L-SRB - ELVN-L HL SEALED

(RETL18) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = 8.000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.100 RN/L = 2.250

RUN NO. 63/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
4.217	-6.009	-.01550	.01950	.06470	.04610	-.03720	-.00259	.02900	.03570
4.217	-3.968	-.01250	.01670	.06410	.03920	-.03220	-.00203	.02890	.03520
4.205	.112	-.00470	.00960	.06180	.03020	-.02660	-.00052	.02730	.03450
4.164	4.225	.00420	-.00060	.05860	.01730	-.01910	.00112	.02570	.03290
4.148	6.292	.00740	-.00420	.05680	.01290	-.01760	.00166	.02450	.03230
	GRADIENT	.00204	-.00211	-.00067	-.00267	.00160	.00038	-.00039	-.00028

RUN NO. 64/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
6.385	-3.909	.00920	.00640	.06350	.02650	-.02670	.00215	.02860	.03490
6.375	-1.882	.00860	.00580	.06350	.02070	-.02290	.00202	.02940	.03410
6.355	.174	.00840	.00440	.06180	.01480	-.01980	.00204	.02810	.03370
6.316	2.224	.01050	-.00010	.06050	.01130	-.01680	.00236	.02690	.03360
6.287	4.274	.01100	-.00270	.05840	.00430	-.01250	.00245	.02560	.03280
	GRADIENT	.00027	-.00118	-.00065	-.00263	.00169	.00005	-.00042	-.00023

AMES11-019(IA81) LVAP L-SRB - ELVN-L HL SEALED

(RETL17) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = 10.000 ELV-08 = 4.000
 RUDDER = .000 SPDBRK = .000
 MACH = .900 RN/L = 2.250

RUN NO. 85/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-6.526	-3.899	-.08760	.03800	.04920	-.01010	-.00230	-.01664	.02670	.02250
-6.478	-1.861	-.07160	.02950	.04970	-.01740	.00170	-.01356	.02830	.02140
-6.434	.207	-.05180	.01700	.04690	-.02210	.00340	-.00981	.02680	.02010
-6.409	2.271	-.03170	.00370	.04440	-.02340	.00260	-.00594	.02420	.02020
-6.387	4.321	-.01410	-.00760	.04170	-.02200	.00050	-.00255	.02070	.02100
	GRADIENT	.00909	-.00569	-.00099	-.00145	.00032	.00174	-.00078	-.00020

DATE 17 OCT 75

1A81A - FORCE SOURCE DATA TABULATION

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AMES11-019(1A81) LVAP L-SRB - ELVN-L HL SEALED

(RETL17) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = 10.000 ELV-08 = 4.000
 RUDDER = .000 SPDBRK = .000
 MACH = .900 RN/L = 2.250

RUN NO. 86/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-4.392	-6.002	-.08470	.04110	.05130	.01510	-.01610	-.01602	.02780	.02350
-4.351	-3.963	-.07090	.03370	.04980	.00780	-.01110	-.01339	.02660	.02320
-4.294	.147	-.04020	.01530	.04540	-.00130	-.00730	-.00753	.02430	.02110
-4.254	4.246	-.01030	-.00480	.04150	-.00300	-.00890	-.00188	.02100	.02050
-4.232	6.309	.00160	-.01170	.03950	-.00270	-.01120	.00042	.01930	.02020
GRADIENT		.00738	-.00469	-.00101	-.00132	.00027	.00140	-.00068	-.00033

RUN NO. 87/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-2.224	-6.045	-.06590	.03580	.05240	.03130	-.02510	-.01236	.02910	.02330
-2.176	-1.967	-.04310	.02260	.04920	.01780	-.01620	-.00805	.02570	.02350
-2.161	2.159	-.01800	.00460	.04270	.01170	-.01530	-.00325	.02150	.02120
-2.135	6.257	.00350	-.00990	.04100	.00950	-.01690	.00085	.02010	.02090
GRADIENT		.00608	-.00436	-.00158	-.00148	.00022	.00116	-.00102	-.00056

RUN NO. 88/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-.094	-6.061	-.05020	.03040	.05050	.03760	-.02840	-.00939	.02590	.02460
-.078	-4.027	-.04090	.02450	.04930	.03180	-.02430	-.00760	.02520	.02410
-.076	.064	-.02150	.01040	.04590	.02540	-.02130	-.00390	.02280	.02310
-.061	4.161	-.00310	-.00290	.04230	.01970	-.01930	-.00040	.02010	.02220
-.056	6.209	.00470	-.00860	.04200	.01760	-.01870	.00112	.02010	.02190
GRADIENT		.00462	-.00335	-.00085	-.00148	.00061	.00088	-.00062	-.00023

RUN NO. 89/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
2.063	-6.055	-.03150	.02340	.04970	.04130	-.03130	-.00567	.02440	.02530
2.068	-1.995	-.01800	.01350	.04650	.03120	-.02420	-.00315	.02340	.02310
2.049	2.105	-.00410	.00150	.04280	.02580	-.02150	-.00058	.02000	.02280
2.041	6.193	.00590	-.00680	.04400	.01940	-.01840	.00128	.02130	.02270
GRADIENT		.00339	-.00293	-.00090	-.00132	.00066	.00063	-.00083	-.00007

ORIGINAL PAGE IS
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AMES11-019(TAB1) LVAP L-SRB - ELVN-L HL SEALED

(RETL17) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 10.000 ELV-08 = 4.000
 RUDDER = .000 SPDBRK = .000
 MACH = .900 RN/L = 2.250

RUN NO. 90/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
4.212	-6.036	-.01120	.01580	.04900	.04070	-.03170	-.00183	.02490	.02410
4.222	-4.007	-.00810	.01390	.04760	.03490	-.02680	-.00123	.02230	.02530
4.196	.065	-.00080	.00650	.04540	.02550	-.02130	.00009	.02220	.02320
4.169	4.164	.00430	.00040	.04500	.01380	-.01440	.00106	.02180	.02320
4.152	6.225	.00770	-.00340	.04510	.01000	-.01320	.00167	.02220	.02290
	GRADIENT	.00152	-.00165	-.00032	-.00258	.00152	.00028	-.00006	-.00026

RUN NO. 91/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
6.376	-3.956	.01110	.00630	.04740	.02300	-.02170	.00249	.02370	.02370
6.363	-1.930	.01070	.00550	.04610	.01650	-.01740	.00233	.02290	.02320
6.334	.120	.01040	.00350	.04550	.01050	-.01430	.00232	.02260	.02290
6.301	2.172	.01130	.00010	.04470	.00610	-.01140	.00246	.02220	.02250
6.275	4.219	.01080	-.00150	.04490	.00090	-.00830	.00227	.02210	.02280
	GRADIENT	.00000	-.00103	-.00031	-.00267	.00160	-.00001	-.00019	-.00012

AMES11-019(TAB1) LVAP L-SRB - ELVN-L HL SEALED

(RETL18) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 10.000 ELV-08 = 4.000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.100 RN/L = 2.250

RUN NO. 92/ 0 RN/L = 2.26 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-6.597	.235	-.05750	.01770	.06340	-.01110	-.00420	-.01081	.03230	.03110
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 93/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-4.459	-3.966	-.07740	.03640	.06560	.01870	-.01680	-.01460	.03140	.03420
-4.393	.151	-.04280	.01520	.06340	.01250	-.01500	-.00793	.03030	.03310
-4.362	4.270	-.00940	-.00860	.05960	.00710	-.01470	-.00153	.02830	.03130
	GRADIENT	.00826	-.00546	-.00073	-.00141	.00025	.00159	-.00038	-.00035

DATE 17 OCT 75

1A81A - FORCE SOURCE DATA TABULATION

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AMES11-019(1A81) LVAP L-SRB - ELVN-L HL SEALED

(RETL18) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = 10.000 ELV-08 = 4.000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.100 RN/L = 2.250

RUN NO. 94/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-.118	-6.074	-.05290	.03390	.06620	.04970	-.03520	-.00983	.02890	.03730
-.098	-4.027	-.04370	.02850	.06490	.04520	-.03270	-.00808	.02920	.03570
-.091	.060	-.02380	.01430	.06080	.03960	-.03000	-.00429	.02720	.03360
-.080	4.186	-.00650	.00110	.05710	.02540	-.02270	-.00101	.02530	.03180
-.083	6.250	.00250	-.00630	.05450	.01980	-.02010	.00077	.02310	.03140
GRADIENT		.00453	-.00334	-.00095	-.00241	.00122	.00086	-.00047	-.00047

RUN NO. 95/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
4.219	-3.959	-.01300	.01730	.06430	.03690	-.03090	-.00212	.02950	.03480
4.201	.108	-.00550	.01020	.06190	.03100	-.02670	-.00072	.02770	.03420
4.158	4.230	.00330	.00000	.05840	.01660	-.01870	.00097	.02580	.03260
GRADIENT		.00199	-.00211	-.00072	-.00248	.00149	.00038	-.00045	-.00027

RUN NO. 96/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
6.345	.170	.00750	.00510	.06190	.01630	-.02030	.00190	.02800	.03390
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

AMES11-019(1A81) LVAP L-SRB - ELVN-L HL SEALED

(RETL19) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = 10.000 ELV-08 = 4.000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.250 RN/L = 2.250

RUN NO. 97/ 0 RN/L = 2.27 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-4.543	-3.976	-.08140	.03680	.05800	.00610	-.00570	-.01544	.02430	.03370
-4.472	.144	-.04610	.01520	.05560	.00100	-.00570	-.00871	.02420	.03140
-4.412	4.296	-.01290	-.00780	.05410	.00190	-.01070	-.00228	.02330	.03080
GRADIENT		.00828	-.00539	-.00047	-.00051	-.00061	.00159	-.00012	-.00035

AMES11-019(1A81) LVAP L-SRB - ELVN-L HL SEALED

(RETL19) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 10.000 ELV-0B = 4.000
 RUDDER = .000 SPOBRK = .000
 MACH = 1.250 RN/L = 2.250

RUN NO. 98/ 0 RN/L = 2.27 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-.084	-4.064	-.04540	.03010	.05960	.04110	-.02690	-.00844	.02350	.03610
-.088	.061	-.02530	.01510	.05340	.03410	-.02530	-.00467	.02050	.03290
-.072	4.188	-.00970	.00380	.05200	.02640	-.02300	-.00165	.02040	.03160
	GRADIENT	.00433	-.00319	-.00092	-.00178	.00047	.00082	-.00038	-.00055

RUN NO. 99/ 0 RN/L = 2.27 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
4.245	-3.957	-.01360	.01930	.06030	.03280	-.02730	-.00225	.02380	.03650
4.211	.124	-.00690	.01190	.05610	.02450	-.02230	-.00097	.02210	.03400
4.159	4.266	.00150	.00160	.05310	.01440	-.01880	.00058	.02150	.03160
	GRADIENT	.00184	-.00215	-.00088	-.00224	.00103	.00034	-.00028	-.00060

AMES11-019(1A81) LVAP L-SRB - ELVN-L HL SEALED

(RETL20) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000
 RUDDER = .000 SPOBRK = .000
 MACH = 1.400 RN/L = 2.250

RUN NO. 72/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-.150	-6.117	-.04540	.02780	.06010	.03960	-.02490	-.00864	.02460	.03550
-.137	-4.067	-.03750	.02280	.05740	.03760	-.02430	-.00709	.02350	.03390
-.124	-2.013	-.02840	.01670	.05440	.03480	-.02400	-.00537	.02180	.03260
-.128	.070	-.02140	.01150	.05130	.02950	-.02280	-.00397	.02090	.03040
-.127	2.139	-.01320	.00500	.04890	.02280	-.01950	-.00240	.01960	.02930
-.119	4.208	-.00770	.00130	.04760	.01990	-.01950	-.00137	.01960	.02800
-.103	6.266	.00660	-.00880	.04610	.02070	-.02100	.00145	.01830	.02780
	GRADIENT	.00361	-.00264	-.00121	-.00229	.00063	.00070	-.00048	-.00073

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IABIA - FORCE SOURCE DATA TABULATION

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AMES11-019(IAB1) LVAP L-SRB - ELVN-L HL SEALED

(RETL21) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-13 = .000 ELV-08 = .000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.250 RN/L = 2.250

RUN NO. 74/ 0 RN/L = 2.28 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-.151	-8.106	-.05060	.03060	.06020	.04090	-.02380	-.00955	.02390	.03830
-.129	-4.059	-.04040	.02420	.05780	.03730	-.02460	-.00761	.02370	.03410
-.116	-2.002	-.03110	.01830	.05510	.03570	-.02550	-.00581	.02170	.03340
-.115	.064	-.02170	.01120	.05270	.03150	-.02390	-.00398	.02090	.03180
-.082	2.132	-.01220	.00450	.05210	.02960	-.02410	-.00221	.02150	.03060
-.073	4.201	-.00590	.00010	.05140	.02300	-.02140	-.00098	.02120	.03020
-.080	6.270	.00210	-.00660	.05010	.01850	-.02010	.00061	.02090	.02920
GRADIENT		.00426	-.00300	-.00076	-.00168	.00038	.00082	-.00025	-.00051

AMES11-019(IAB1) LVAP L-SRB - ELVN-L HL SEALED

(RETL22) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = .000 ELV-08 = .000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.100 RN/L = 2.250

RUN NO. 76/ 0 RN/L = 2.26 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-.158	-6.061	-.04850	.02860	.06480	.04760	-.03450	-.00903	.02960	.03520
-.136	-4.015	-.03910	.02330	.06340	.04330	-.03210	-.00720	.02690	.03450
-.122	-1.975	-.03010	.01750	.06040	.04000	-.03090	-.00553	.02720	.03320
-.119	.085	-.02020	.01020	.05830	.03490	-.02860	-.00360	.02640	.03190
-.098	2.148	-.00920	.00170	.05750	.02860	-.02470	-.00155	.02580	.03170
-.090	4.193	-.00200	-.00340	.05620	.02290	-.02110	-.00017	.02490	.03130
-.094	6.254	.00620	-.01030	.05480	.01810	-.01940	.00139	.02470	.03010
GRADIENT		.00463	-.00337	-.00084	-.00254	.00137	.00088	-.00046	-.00038

AMES11-019(IA81) LVAP L-SRB - ELVN-L HL SEALED

(RETL23) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.400 RN/L = 2.250

RUN NO. 73/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

BETAL	ALPHAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
.213	-6.775	-.05900	.01150	.05340	-.03430	.01590	-.01139	.02490	.02850
.141	-4.529	-.04350	.01030	.05220	-.00860	.00090	-.00840	.02280	.02940
.089	-2.328	-.03200	.01070	.05210	.01230	-.01180	-.00606	.02220	.02990
.053	-.129	-.02170	.01160	.05130	.02980	-.02290	-.00408	.02070	.03060
.091	2.059	-.01300	.01170	.05080	.02750	-.02400	-.00232	.02050	.03030
.135	4.186	-.00340	.00880	.05420	.01820	-.01960	-.00041	.02220	.03200
.167	5.264	.00370	.00580	.05510	.01290	-.01770	.00093	.02300	.03210
GRADIENT		.00455	-.00009	.00012	.00317	-.00245	.00090	-.00013	.00026

AMES11-019(IA81) LVAP L-SRB - ELVN-L HL SEALED

(RETL24) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.250 RN/L = 2.250

RUN NO. 75/ 0 RN/L = 2.28 GRADIENT INTERVAL = -5.00/ 5.00

BETAL	ALPHAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
.229	-6.731	-.05700	.01120	.05700	-.02800	.00960	-.01092	.02600	.03100
.125	-4.484	-.04370	.01180	.05520	.00010	-.00490	-.00828	.02390	.03130
.081	-2.301	-.03210	.01080	.05340	.01710	-.01500	-.00610	.02190	.03150
.045	-.111	-.02200	.01120	.05280	.03180	-.02380	-.00410	.02030	.03250
.084	2.053	-.01410	.01100	.05190	.02840	-.02420	-.00255	.01990	.03200
.106	4.193	-.00280	.00770	.05590	.02130	-.01990	-.00028	.02240	.03350
.177	6.337	.01040	.00210	.05680	.00730	-.01420	.00232	.02280	.03400
GRADIENT		.00460	-.00037	-.00001	.00249	-.00181	.00090	-.00023	.00023

DATE 17 OCT 75

IABIA - FORCE SOURCE DATA TABULATION

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AMES11-019(IAB1) LVAP L-SRB - ELVN-L HL SEALED

(RETL25) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.100 RN/L = 2.250

RUN NO. 77/ 0 RN/L = 2.26 GRADIENT INTERVAL = -5.00/ 5.00

BETAL	ALPHAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
.227	-6.616	-.05240	.01270	.06210	-.01370	-.00270	-.00994	.03100	.03110
.145	-4.423	-.03960	.01110	.06170	.00740	-.01270	-.00740	.02990	.03180
.086	-2.259	-.02860	.00990	.06020	.02540	-.02230	-.00535	.02800	.03220
.062	-.108	-.01990	.00970	.05880	.03620	-.02900	-.00359	.02650	.03230
.087	2.042	-.01230	.00900	.05800	.03300	-.02850	-.00205	.02640	.03160
.100	4.178	-.00180	.00610	.06080	.02740	-.02480	.00000	.02740	.03340
.171	6.321	.01110	.00130	.06070	.01100	-.01760	.00249	.02810	.03260
GRADIENT		.00427	-.00051	-.00019	.00222	-.00142	.00084	-.00031	.00012

AMES11-019(IAB1) LVAP L-SRB - ELVN-L HL SEALED

(RETL26) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000
 RUDDER = .000 SPDBRK = .000
 MACH = .900 RN/L = 2.250

RUN NO. 78/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-6.556	-3.889	-.08530	.03470	.04870	-.01080	-.00330	-.01625	.02900	.01970
-6.508	-1.855	-.06830	.02600	.04800	-.01690	.00080	-.01298	.02730	.02070
-6.473	.202	-.04870	.01350	.04420	-.02230	.00290	-.00931	.02530	.01890
-6.431	2.279	-.02790	-.00010	.04250	-.02380	.00230	-.00528	.02350	.01900
-6.400	4.324	-.01080	-.01080	.04080	-.02280	.00050	-.00197	.02170	.01910
GRADIENT		.00921	-.00570	-.00104	-.00150	.00044	.00176	-.00089	-.00014

RUN NO. 79/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-4.422	-5.990	-.08120	.03730	.04970	.01430	-.01690	-.01537	.02750	.02220
-4.377	-3.948	-.06820	.03060	.04890	.00690	-.01210	-.01294	.02880	.02010
-4.318	.145	-.03690	.01180	.04360	-.00140	-.00810	-.00695	.02510	.01850
-4.273	4.256	-.00650	-.00820	.04080	-.00410	-.00860	-.00111	.02080	.01980
-4.258	6.321	.00480	-.01530	.03930	-.00380	-.01090	.00105	.01900	.02030
GRADIENT		.00752	-.00473	-.00101	-.00134	.00043	.00144	-.00098	-.00004

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 OF POOR QUALITY

DATE 17 OCT 75

IAB1A - FORCE SOURCE DATA TABULATION

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AMES11-019(IAB1) LVAP L-SRB - ELVN-L HL SEALED

(RETL25) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. YT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000
 RUDDER = .000 SPDBRK = .000
 MACH = .900 RN/L = 2.250

RUN NO. 80/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-2.251	-6.036	-.06190	.03170	.05050	.03100	-.02590	-.01161	.02840	.02210
-2.199	-1.961	-.03990	.01910	.04820	.01890	-.01790	-.00751	.02550	.02270
-2.182	2.165	-.01400	.00080	.04110	.01230	-.01620	-.00251	.02040	.02070
-2.159	6.256	.00700	-.01350	.04080	.01270	-.01890	.00150	.02030	.02050
	GRADIENT	.00628	-.00444	-.00172	-.00160	.00041	.00121	-.00124	-.00048

RUN NO. 81/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

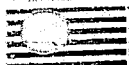
ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-.119	-6.055	-.04550	.02580	.04990	.03920	-.03090	-.00848	.02650	.02340
-.103	-4.019	-.03700	.02050	.04910	.03310	-.02610	-.00689	.02510	.02400
-.097	.072	-.01750	.00660	.04500	.02490	-.02220	-.00316	.02360	.02140
-.090	4.175	.00010	-.00610	.04210	.01990	-.02040	.00024	.02080	.02130
-.087	6.223	.00840	-.01250	.04160	.01660	-.01870	.00174	.02020	.02140
	GRADIENT	.00453	-.00325	-.00085	-.00161	.00070	.00087	-.00052	-.00033

RUN NO. 82/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
2.036	-6.043	-.02710	.01890	.04990	.04210	-.03340	-.00487	.02600	.02390
2.043	-1.987	-.01410	.00930	.04620	.03080	-.02510	-.00245	.02310	.02310
2.028	2.123	-.00090	-.00180	.04270	.02470	-.02230	.00005	.02120	.02150
2.019	6.206	.00940	-.01050	.04390	.01860	-.01850	.00203	.02200	.02190
	GRADIENT	.00321	-.00270	-.00085	-.00148	.00068	.00061	-.00046	-.00039

RUN NO. 83/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
4.180	-6.024	-.00780	.01180	.04950	.04110	-.03300	-.00121	.02510	.02440
4.185	-4.000	-.00350	.00890	.04770	.03540	-.02860	-.00035	.02460	.02310
4.167	.063	.00290	.00270	.04560	.02720	-.02280	.00082	.02300	.02260
4.141	4.176	.00780	-.00330	.04440	.01310	-.01490	.00171	.02270	.02170
4.128	6.234	.01110	-.00700	.04500	.00900	-.01340	.00229	.02320	.02180
	GRADIENT	.00138	-.00149	-.00040	-.00273	.00168	.00025	-.00023	-.00017



DATE 17 OCT 75

IAB1A - FORCE SOURCE DATA TABULATION

AMES11-019(IAB1) LVAP L-SRB - ELVN-L HL SEALED

(RETL26) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 IN. YMRP = .0000 IN. YT
BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
SCALE = .0300

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000
RUDDER = .000 SPOBRK = .000
MACH = .900 RN/L = 2.250

RUN NO. 84/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAL	BETAL	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
6.343	-3.952	.01590	.00160	.04750	.02390	-.02360	.00334	.02590	.02160
6.327	-1.923	.01530	.00050	.04620	.01620	-.01810	.00321	.02370	.02250
6.300	.124	.01550	-.00180	.04580	.00970	-.01450	.00329	.02320	.02260
6.271	2.178	.01610	-.00470	.04460	.00610	-.01240	.00332	.02320	.02140
6.244	4.230	.01620	-.00690	.04510	-.00050	-.00850	.00336	.02380	.02130
GRADIENT		.00007	-.00109	-.00031	-.00288	.00175	.00001	-.00023	-.00008

AMES11-019(IAB1) LVAP

TANK-SPOBRK HL UNSEAL

(RETT01) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 IN. YMRP = .0000 IN. YT
BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
SCALE = .0300

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000
RUDDER = .000 SPOBRK = 55.000
MACH = 1.100 RN/L = 3.000

RUN NO. 1/ 0 RN/L = 2.99 GRADIENT INTERVAL = -5.00/ 5.00

BETAT	ALPHAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
.121	-6.972	-.22650	.02640	.16310	.00790	-.00580	.00240	.07700	.08610
.113	-4.719	-.16520	.01470	.15920	.00560	-.00470	.00150	.07200	.08720
.095	-2.468	-.11360	.01050	.15980	.00340	-.00340	.00030	.07140	.08820
.100	-.203	-.08120	.01970	.16100	-.00120	-.00290	.00020	.00000	.16100
.101	2.066	-.05670	.03150	.15500	-.00060	-.00280	.00020	.06720	.08780
.112	4.304	-.02730	.03880	.15030	-.00140	-.00300	.00020	.06510	.08520
.125	6.549	.00830	.04100	.14960	-.00060	-.00260	.00010	.06300	.08660
.137	8.813	.04430	.04660	.14800	-.00040	-.00310	.00010	.06290	.08510
GRADIENT		.01473	.00307	-.00099	-.00080	.00018	-.00012	-.00080	-.00019

AMES11-019(IAB1) LVAP

TANK-SPDBRK HL SEALED

(RETT02) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000
 RUDDER = .000 SPDBRK = 55.000
 MACH = .600 RN/L = 3.200

RUN NO. 2/ 0 RN/L = 3.24 GRADIENT INTERVAL = -5.00/ 5.00

BETAT	ALPHAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
.107	-6.577	-.18670	.01750	.10110	.00430	-.00300	.00070	.05380	.04730
.094	-4.406	-.14690	.01710	.09980	.00320	-.00250	.00030	.05400	.04580
.088	-2.254	-.11970	.02500	.09950	.00180	-.00210	.00020	.05270	.04680
.088	-.100	-.09480	.03350	.09880	-.00200	-.00090	.00020	.05110	.04770
.089	2.066	-.06660	.03930	.09570	-.00300	-.00060	.00010	.04970	.04700
.094	4.224	-.03780	.04590	.09550	-.00210	-.00140	.00010	.04830	.04720
.107	6.398	-.01330	.05400	.09310	.00040	-.00200	.00010	.04730	.04580
GRADIENT		.01257	.00333	-.00053	-.00071	.00017	-.00002	-.00067	.00014

AMES11-019(IAB1) LVAP

TANK-SPDBRK HL SEALED

(RETT03) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000
 RUDDER = .000 SPDBRK = 55.000
 MACH = .900 RN/L = 3.500

RUN NO. 3/ 0 RN/L = 3.51 GRADIENT INTERVAL = -5.00/ 5.00

BETAT	ALPHAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
.146	-6.923	-.22420	.03400	.12380	.00590	-.00490	.00180	.07270	.05110
.124	-4.684	-.17000	.02470	.11670	.00630	-.00540	.00100	.07030	.04840
.099	-2.452	-.12660	.02290	.11600	.00350	-.00350	.00020	.06840	.04960
.094	-.225	-.09650	.02770	.11760	.00100	-.00290	.00010	.06480	.05280
.087	2.041	-.06350	.03280	.11810	.00120	-.00260	.00010	.06380	.05430
.093	4.302	-.02550	.03770	.11560	.00110	-.00260	.00010	.06650	.04910
.066	6.247	.01090	.04080	.12020	-.00010	-.00150	.00000	.06530	.05490
GRADIENT		.01567	.00160	-.00027	-.00056	.00029	-.00008	-.00054	-.00027

(RETT06) (14 OCT 75)

PARAMETRIC DATA

ELV-1B	8.000	ELV-0B	4.000
RUDDER	.000	SPDBRK	.000
MACH	.600	RN/L	2.250

[illegible]

AMES11-019(IAB1) LVAP TANK - ELVN-L HL UNSEAL

(RETT07) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 8.000 ELV-0B = 4.000
 RUDDER = .000 SPOBRK = .000
 MACH = .900 RN/L = 2.250

RUN NO. 18/ 0 RN/L = 2.23 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-11.625	-4.005	-.21280	.02510	.14120	.06410	-.01140	.00100	.06780	.07340
-9.104	-1.945	-.20050	.01780	.12840	.03430	-.00750	.00070	.06650	.06190
-6.552	.146	-.18990	.01180	.11870	.00760	-.00510	.00040	.06710	.05160
-6.536	2.247	-.18830	.01180	.12360	-.02130	-.00090	.00010	.07390	.04970
-6.518	4.334	-.18950	.01450	.12780	-.04820	.00100	-.00020	.07510	.05270
GRADIENT		.00281	-.00130	-.00151	-.01343	.00150	-.00014	.00106	-.00256

RUN NO. 17/ 0 RN/L = 2.23 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-4.414	-6.142	-.17540	.03240	.12730	.10010	-.01800	.00100	.07420	.05310
-4.408	-4.054	-.16910	.02770	.12530	.06710	-.01340	.00080	.06870	.05660
-4.395	.137	-.15080	.01510	.11880	.00590	-.00460	.00020	.06570	.05310
-4.360	4.313	-.15200	.01960	.12470	-.05280	.00270	-.00020	.07400	.05070
-4.349	6.409	-.15010	.02080	.12910	-.08550	.00770	-.00050	.07460	.05450
GRADIENT		.00205	-.00097	-.00007	-.01433	.00192	-.00012	.00063	-.00071

RUN NO. 16/ 0 RN/L = 2.23 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-2.256	-6.150	-.14190	.03890	.12300	.09830	-.01710	.00090	.07350	.04950
-2.254	-1.988	-.12610	.02720	.11910	.03550	-.00850	.00040	.06420	.05490
-2.219	2.212	-.11880	.02320	.12130	-.02790	.00220	.00000	.07010	.05120
-2.190	6.398	-.11880	.02740	.12650	-.09090	.00980	-.00050	.07440	.05210
GRADIENT		.00174	-.00095	.00052	-.01510	.00255	-.00010	.00140	-.00088

RUN NO. 12/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-.114	-6.179	-.11540	.04550	.12310	.10890	-.01960	.00090	.07310	.05000
-.113	-4.083	-.10750	.03990	.12180	.07460	-.01510	.00060	.06620	.05560
-.124	.112	-.09050	.02580	.11740	.00420	-.00390	.00010	.06300	.05440
-.097	4.296	-.09410	.03120	.12510	-.06470	.00770	-.00020	.07290	.05220
-.083	6.396	-.09490	.03410	.12670	-.09920	.01190	-.00050	.07580	.05090
GRADIENT		.00160	-.00104	.00039	-.01662	.00272	-.00010	.00080	-.00041

DATE 17 OCT 75

1A81A - FORCE SOURCE DATA TABULATION

AMES11-019(1A81) LVAP TANK - ELVN-L HL UNSEAL

(RETT07) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 IN. YMRP = .0000 IN. YT
BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
SCALE = .0300

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = 4.000
RUDDER = .000 SPDBRK = .000
HACH = .900 RN/L = 2.250

RUN NO. 13/ 0 RN/L = 2.24 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
2.083	-6.177	-.08430	.05120	.12010	.11040	-.01860	.00080	.07110	.04900
2.078	-1.988	-.06620	.03760	.11860	.03800	-.00950	.00030	.06610	.05250
2.076	2.205	-.06190	.03390	.12110	-.03410	.00540	-.00010	.06930	.05180
2.098	6.404	-.06260	.03840	.12320	-.10420	.01300	-.00050	.07260	.05060
GRADIENT		.00103	-.00088	.00060	-.01720	.00355	-.00010	.00076	-.00017

RUN NO. 14/ 0 RN/L = 2.24 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
4.250	-6.167	-.04810	.05540	.11920	.10800	-.01730	.00070	.06810	.05110
4.252	-4.064	-.04200	.05120	.11740	.07050	-.01340	.00050	.06700	.05040
4.234	.114	-.02300	.03640	.11510	.00340	-.00400	.00000	.06400	.05110
4.249	4.304	-.02700	.04150	.11850	-.06580	.00800	-.00030	.07080	.04770
4.253	6.411	-.02360	.04130	.11990	-.10000	.01130	-.00060	.07180	.04810
GRADIENT		.00179	-.00116	.00013	-.01629	.00256	-.00010	.00045	-.00032

RUN NO. 15/ 0 RN/L = 2.23 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
6.423	-4.058	-.00990	.05530	.11550	.06920	-.01120	.00040	.06790	.04760
6.416	-1.968	.00200	.04700	.11340	.03470	-.00740	.00020	.06600	.04740
6.401	.124	.00840	.04070	.11330	.00200	-.00260	.00000	.06250	.05080
6.406	2.228	.00710	.04280	.11500	-.03380	.00450	-.00010	.06690	.04810
6.410	4.326	.00670	.04420	.11570	-.06530	.00700	-.00030	.06850	.04720
GRADIENT		.00183	-.00126	.00010	-.01610	.00230	-.00008	.00010	-.00001

ORIGINAL PAGE IS
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AMES11-019(IAB1) LVAP TANK - ELVN-L HL UNSEAL

(RETT08) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 8.000 ELV-08 = 4.000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.100 RN/L = 3.000

RUN NO. 0/ 0 RN/L = 2.99 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-.172	-6.345	-.10540	.03930	.16330	.11980	-.02430	.00100	.07350	.08980
-.164	-4.191	-.09660	.03410	.15890	.07630	-.01540	.00070	.07100	.08790
-.192	.100	-.07960	.01880	.15840	.00530	-.00620	.00020	.06870	.08970
-.139	4.392	-.08380	.02590	.15680	-.07190	.00920	-.00030	.06880	.08800
-.115	6.560	-.08380	.02790	.16050	-.10880	.01340	-.00050	.07200	.08850
GRADIENT		.00149	-.00096	-.00024	-.01727	.00287	-.00012	-.00026	.00001

RUN NO. 0/ 0 RN/L = 2.99 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
2.116	-6.347	-.08000	.05070	.16090	.12000	-.02250	.00090	.07190	.08900
2.096	-2.038	-.06170	.03670	.15470	.04060	-.01150	.00040	.06740	.08730
2.099	2.252	-.05440	.03100	.15340	-.03550	.00360	-.00010	.06490	.08850
2.157	6.560	-.05370	.03730	.15560	-.11180	.01390	-.00050	.07120	.08440
GRADIENT		.00170	-.00133	-.00030	-.01774	.00352	-.00012	-.00058	.00028

RUN NO. 0/ 0 RN/L = 2.99 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
4.351	-4.166	-.03380	.04690	.15350	.08030	-.01740	.00060	.06690	.08660
4.325	.119	-.02440	.03720	.14830	.00190	-.00430	.00010	.06170	.08660
4.366	4.414	-.02320	.04130	.14970	-.07560	.01060	-.00040	.06440	.08530
GRADIENT		.00124	-.00065	-.00044	-.01817	.00326	-.00012	-.00029	-.00015

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1A81A - FORCE SOURCE DATA TABULATION

PAGE 63

AMES11-019(1A81) LVAP TANK - ELVN-L HL UNSEAL

(RETT09) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 8.000 ELV-08 = 4.000
 RUDDER = .000 SPD8RK = .000
 MACH = 1.100 RN/L = 2.250

RUN NO. 25/ 0 RN/L = 2.24 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-6.752	-4.074	-.22640	.02620	.16600	.08030	-.01800	.00230	.08330	.08270
-6.747	-1.965	-.21500	.01790	.15970	.04320	-.01190	.00190	.07600	.08370
-6.723	.149	-.20320	.00910	.16060	.00570	-.00500	.00170	.07640	.08420
-6.708	2.262	-.20400	.01000	.16440	-.02780	.00050	.00100	.07920	.08520
-6.694	4.379	-.20280	.00960	.16570	-.06380	.00600	.00060	.08140	.08430
GRADIENT		.00275	-.00194	.00019	-.01700	.00286	-.00020	-.00003	.00022

RUN NO. 24/ 0 RN/L = 2.24 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-4.560	-6.200	-.18050	.02570	.16640	.11500	-.02350	.00160	.07750	.08890
-4.550	-4.095	-.16940	.01890	.16240	.07570	-.01580	.00110	.07680	.08560
-4.534	.129	-.14550	.00170	.15890	.00370	-.00260	.00040	.07250	.08640
-4.490	4.346	-.15100	.00840	.16250	-.06160	.00570	-.00020	.07670	.08580
-4.476	6.463	-.15230	.01040	.16470	-.09660	.00970	-.00050	.07990	.08480
GRADIENT		.00218	-.00124	.00001	-.01627	.00255	-.00015	-.00001	.00002

RUN NO. 23/ 0 RN/L = 2.24 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-2.355	-6.217	-.13900	.02910	.16530	.11720	-.02340	.00110	.07520	.09010
-2.343	-2.010	-.12030	.01830	.15940	.04050	-.01020	.00050	.07120	.08820
-2.303	2.225	-.11120	.01290	.15810	-.03370	.00410	.00000	.07140	.08670
-2.269	6.447	-.11690	.01950	.16270	-.10160	.01070	-.00050	.07620	.08650
GRADIENT		.00215	-.00128	-.00031	-.01752	.00338	-.00012	.00005	-.00035

RUN NO. 26/ 0 RN/L = 2.24 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-.149	-6.227	-.10780	.03880	.16350	.11490	-.02260	.00100	.07500	.08850
-.145	-4.115	-.09900	.03370	.15830	.07240	-.01400	.00070	.07260	.08570
-.153	.099	-.07930	.01890	.15870	.00320	-.00430	.00020	.06900	.08970
-.114	4.320	-.08390	.02590	.15690	-.07070	.00950	-.00030	.07030	.08660
-.095	6.450	-.08170	.02670	.15970	-.10710	.01320	-.00060	.07490	.08480
GRADIENT		.00179	-.00092	-.00017	-.01697	.00279	-.00012	-.00027	.00011

DATE 17 OCT 75

1A81A - FORCE SOURCE DATA TABULATION

AMES11-C19(1A81) LVAP

TANK - ELVN-L HL UNSEAL

(RETT09) (14 OCT 75)

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 RREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

ELV-18 = 8.000 ELV-08 = 4.000
 RUDDER = .000 SPOBRK = .000
 MACH = 1.100 RN/L = 2.250

PLN NO. 27/ D RN/L = 2.24 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
2.074	-6.223	-.08150	.04960	.16000	.11580	-.02150	.00090	.07350	.08650
2.062	-2.011	-.06300	.03580	.15460	.03930	-.01050	.00040	.07020	.08440
2.075	2.220	-.05560	.03150	.15330	-.03410	.00330	-.00010	.06560	.08770
2.112	6.461	-.05550	.03720	.15920	-.11030	.01360	-.00060	.07070	.08850
GRADIENT		.00175	-.00102	-.00031	-.01735	.00326	-.00012	-.00109	.00078

RUN NO. 28/ D RN/L = 2.24 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
4.241	-6.212	-.04650	.05330	.15630	.12020	-.02230	.00090	.07060	.08570
4.237	-4.093	-.03910	.04730	.15320	.07890	-.01720	.00060	.06850	.08470
4.231	.119	-.02660	.03780	.14800	.00300	-.00440	.00010	.06390	.08410
4.257	4.338	-.02670	.04190	.14990	-.07400	.01060	-.00040	.06580	.08410
4.272	6.475	-.02030	.04120	.15240	-.11530	.01600	-.00070	.06820	.08420
GRADIENT		.00147	-.00064	-.00039	-.01814	.00330	-.00012	-.00032	-.00007

RUN NO. 22/ D RN/L = 2.24 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CAET	CAF
6.452	-4.080	.00100	.04820	.15030	.08030	-.01630	.00060	.06590	.08440
6.443	-1.977	.00400	.04460	.14710	.03890	-.00910	.00030	.06460	.08250
6.434	.135	.00630	.04140	.14530	.00190	-.00390	.00010	.06140	.08390
6.438	2.251	.00770	.04160	.14340	-.03700	.00350	-.00020	.06010	.08330
6.456	4.367	.01230	.04230	.14520	-.07450	.00900	-.00040	.06150	.08370
GRADIENT		.00125	-.00070	-.00066	-.01825	.00299	-.00012	-.00063	-.00003

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DATE 17 OCT 75

IABIA - FORCE SOURCE DATA TABULATION

PAGE 65

AMES11-019(IAB1) LVAP TANK - ELVN-L HL SEALED

(RETT10) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 8.000 ELV-0B = 4.000
 RUDDER = .000 SPOBRK = .000
 MACH = 1.100 RN/L = 2.250

RUN NO. 29/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

BETAT	ALPHAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
.133	-6.729	-.20200	.00860	.15950	.00880	-.00610	.00180	.07720	.08230
.111	-4.526	-.14600	.00170	.15960	.00460	-.00280	.00030	.07250	.08710
.098	-2.325	-.11090	.00940	.15830	.00900	-.00620	.00020	.07000	.08830
.100	-.133	-.08000	.01900	.15840	.00480	-.00560	.00020	.06930	.08910
.103	2.066	-.05400	.02840	.15400	.00300	-.00440	.00010	.06830	.08570
.109	4.251	-.02520	.03690	.14780	.00270	-.00470	.00010	.06390	.08390
.120	6.439	.00650	.04060	.14540	.00300	-.00410	.00010	.06050	.08490
GRADIENT		.01360	.00407	-.00127	-.00045	-.00009	-.00002	-.00086	-.00041

AMES11-019(IAB1) LVAP TANK - ELVN-L HL SEALED

(RETT11) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 8.000 ELV-0B = 4.000
 RUDDER = .000 SPOBRK = .000
 MACH = 1.250 RN/L = 2.250

RUN NO. 30/ 0 RN/L = 2.27 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-6.803	-4.087	-.24550	.03610	.16200	.08170	-.01620	.00260	.06860	.09340
-6.797	-1.973	-.23510	.02850	.15970	.04260	-.00990	.00210	.06580	.09390
-6.774	.166	-.22160	.01870	.16050	.01050	-.00750	.00180	.06550	.09500
-6.753	2.288	-.21870	.01780	.16250	-.02350	-.00310	.00110	.06740	.09510
-6.734	4.412	-.21510	.01750	.16160	-.05890	.00050	.00060	.06590	.09210
GRADIENT		.00354	-.00225	.00009	-.01634	.00189	-.00024	.00016	-.00007

RUN NO. 31/ 0 RN/L = 2.27 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-4.603	-6.230	-.19280	.03120	.16450	.11430	-.01790	.00160	.06870	.09580
-4.587	-4.111	-.18610	.02760	.16180	.07660	-.01330	.00100	.06540	.09640
-4.573	.122	-.16210	.01050	.16030	.00790	-.00450	.00040	.06230	.09800
-4.520	4.372	-.16480	.01670	.16190	-.06250	.00410	-.00010	.06590	.09600
-4.512	6.505	-.16190	.01640	.16630	-.09470	.00450	-.00040	.07090	.09540
GRADIENT		.00251	-.00128	.00001	-.01640	.00205	-.00013	.00006	-.00005

AMES11-019(IAB1) LVAP TANK - ELVN-L HL SEALED

(RETT11) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = 4.000
 RUDDER = .000 SPOBRK = .000
 MACH = 1.250 RN/L = 2.250

RUN NO. 32/ 0 RN/L = 2.27 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-2.358	-6.251	-.15220	.03790	.16230	.11340	-.01720	.00110	.06540	.09690
-2.343	-2.024	-.13350	.02650	.16050	.124320	-.00980	.00050	.06360	.09690
-2.320	2.230	-.12310	.02070	.16010	-.03490	.00460	.00000	.06140	.09970
-2.286	6.487	-.12080	.02320	.16350	-.09990	.00710	-.00050	.06700	.09650
GRADIENT		.00244	-.00136	-.00009	-.01836	.00339	-.00012	-.00052	.00042

RUN NO. 33/ 0 RN/L = 2.27 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-.111	-6.255	-.11670	.04920	.15960	.10760	-.01460	.00110	.06290	.09670
-.100	-4.131	-.10690	.04410	.15680	.07360	-.01300	.00080	.05980	.09700
-.123	.096	-.08930	.02830	.15900	.00220	-.00230	.00020	.06130	.09770
-.085	4.338	-.08940	.03290	.15780	-.06820	.00780	-.00030	.06070	.09710
-.072	6.473	-.08560	.03210	.15930	-.09790	.00620	-.00060	.06270	.09660
GRADIENT		.00207	-.00132	.00012	-.01674	.00246	-.00013	.00011	-.00001

RUN NO. 34/ 0 RN/L = 2.27 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
.995	-6.249	-.10520	.05550	.15760	.10460	-.01360	.00100	.06260	.09500
.991	-2.022	-.08340	.04080	.15680	.03520	-.00730	.00040	.06090	.09590
1.005	2.213	-.07220	.03460	.15810	-.02920	.00170	.00000	.05990	.09820
1.041	6.463	-.07270	.03940	.15780	-.09910	.00800	-.00060	.06290	.09490
GRADIENT		.00264	-.00146	.00031	-.01521	.00213	-.00009	-.00024	.00054

RUN NO. 35/ 0 RN/L = 2.28 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
3.208	-6.258	-.07830	.06610	.15450	.10940	-.01320	.00100	.05870	.09580
3.204	-4.129	-.06800	.05900	.15230	.07630	-.01340	.00070	.05690	.09540
3.190	.102	-.05480	.04760	.15290	.00530	-.00410	.00020	.05700	.09590
3.224	4.344	-.05000	.04970	.15220	-.07070	.00820	-.00030	.05680	.09540
3.241	6.486	-.04560	.05010	.15360	-.10640	.00960	-.00060	.05880	.09480
GRADIENT		.00212	-.00110	-.00001	-.01735	.00255	-.00012	-.00001	-.00000

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AMES11-019(IAB1) LVAP TANK - ELVN-L HL SEALED

(RETT11) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = 9.000 ELV-08 = 4.000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.250 RN/L = 2.250

RUN NO. 36/ 0 RN/L = 2.28 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
5.399	-4.119	-.03240	.06070	.15030	.07820	-.01300	.00060	.05270	.09760
5.391	-2.007	-.02470	.05430	.14840	.03910	-.00730	.00040	.05310	.09530
5.395	.114	-.02340	.05380	.14750	.00400	-.00300	.00010	.05320	.09430
5.403	2.242	-.01850	.05240	.14540	-.03090	.00140	-.00010	.05100	.09440
5.420	4.368	-.01530	.05330	.14760	-.06770	.00580	-.00040	.05420	.09340
GRADIENT		.00190	-.00079	-.00040	-.01705	.00218	-.00012	.00004	-.00044

AMES11-019(IAB1) LVAP TANK - ELVN-L HL SEALED

(RETT12) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = .000
 RUDDER = .000 SPOBRK = .000
 MACH = 1.400 RN/L = 2.250

RUN NO. 0/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-6.854	-4.091	-.24670	.03780	.16140	.07670	-.01350	.00250	.06470	.09670
-6.843	-1.975	-.23500	.02970	.16080	.04090	-.00870	.00200	.06360	.09720
-6.837	.142	-.22780	.02390	.16110	.01110	-.00730	.00160	.06460	.09650
-6.804	2.290	-.22210	.02080	.16420	-.02290	-.00290	.00100	.06480	.09940
-6.789	4.415	-.21870	.01940	.16660	-.05610	-.00080	.00060	.06650	.10010
GRADIENT		.00324	-.00215	.00065	-.01548	.00147	-.00023	.00023	.00042

RUN NO. 0/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-4.631	-6.247	-.19220	.03230	.16680	.11410	-.01690	.00140	.06640	.10040
-4.617	-4.121	-.18340	.02710	.16310	.07450	-.01110	.00090	.06380	.09930
-4.606	.107	-.16590	.01450	.16180	.00630	-.00350	.00030	.06190	.09990
-4.567	4.376	-.16350	.01590	.16630	-.05950	.00210	-.00010	.06530	.10100
-4.554	6.524	-.16070	.01470	.16800	-.09530	.00390	-.00040	.06750	.10050
GRADIENT		.00234	-.00132	.00038	-.01577	.00155	-.00012	.00018	.00020

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AMES11-019(IAB1) LVAP TANK - ELVN-L HL SEALED

(RETT12) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 8.000 ELV-08 = .000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.400 RN/L = 2.250

RUN NO. 0/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-2.402	-6.264	-.15050	.03910	.16400	.11420	-.01700	.00120	.06330	.10070
-2.393	-2.023	-.13290	.02730	.15990	.03810	-.00670	.00050	.05980	.10010
-2.360	2.240	-.12320	.02140	.16210	-.02050	.00100	.00000	.06020	.10190
-2.321	6.497	-.11620	.02070	.16540	-.09940	.00620	-.00050	.06320	.10220
GRADIENT		.00228	-.00138	.00052	-.01562	.00181	-.00012	.00009	.00042

RUN NO. 0/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-.159	-6.264	-.11640	.05010	.16130	.10760	-.01500	.00110	.06110	.10020
-.161	-4.136	-.10640	.04290	.15950	.06790	-.00960	.00080	.06040	.09910
-.167	.081	-.08930	.03010	.16030	.00470	-.00220	.00020	.06000	.10030
-.138	4.345	-.08580	.03160	.16090	-.06140	.00360	-.00020	.05930	.10160
-.111	6.480	-.08060	.03080	.16240	-.10000	.00750	-.00060	.06020	.10220
GRADIENT		.00243	-.00133	.00017	-.01525	.00156	-.00012	-.00013	.00029

RUN NO. 0/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
2.094	-6.258	-.09140	.06400	.15870	.10870	-.01550	.00100	.06070	.09800
2.079	-2.028	-.08910	.04730	.15560	.03420	-.00540	.00040	.05680	.09880
2.090	2.225	-.05780	.04130	.15720	-.02840	.00160	-.00010	.05640	.10080
2.126	6.485	-.05720	.04490	.15910	-.10400	.00990	-.00060	.05890	.10030
GRADIENT		.00266	-.00141	.00038	-.01472	.00165	-.00012	-.00009	.00047

RUN NO. 0/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
4.289	-6.260	-.06060	.07090	.15550	.11380	-.01580	.00090	.05710	.09840
4.279	-4.130	-.04840	.06160	.15260	.07460	-.01180	.00060	.05480	.09780
4.274	.092	-.03730	.05330	.15020	.00530	-.00240	.00010	.05210	.09810
4.294	4.361	-.02900	.05130	.15230	-.06550	.00510	-.00030	.05390	.09840
4.303	6.516	-.02350	.05080	.15380	-.10870	.01130	-.00070	.05510	.09870
GRADIENT		.00228	-.00121	-.00003	-.01650	.00199	-.00011	-.00011	.00007

DATE 17 OCT 75

IABIA - FORCE SOURCE DATA TABULATION

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AMES11-019(IAB1) LVAP TANK - ELVN-L HL SEALED

(RETT12) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 8.000 ELV-08 = .000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.400 RN/L = 2.250

RUN NO. 0/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
6.487	-4.111	-.01470	.06600	.15300	.07820	-.01260	.00060	.05430	.09870
6.483	-2.004	-.01150	.06290	.14990	.03830	-.00610	.00030	.05150	.09840
6.481	.115	-.01070	.06250	.15040	.00650	-.00340	.00010	.05100	.09940
6.484	2.256	-.00370	.05880	.14940	-.02830	.00000	-.00020	.05170	.09770
6.488	4.392	.00030	.05800	.15150	-.06810	.00560	-.00040	.05390	.09760
GRADIENT		.00178	-.00095	-.00016	-.01689	.00200	-.00012	-.00003	-.00014

AMES11-019(IAB1) LVAP TANK - ELVN-L HL SEALED

(RETT13) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 8.000 ELV-08 = .000
 RUDDER = .000 SPDBRK = .000
 MACH = .600 RN/L = 2.250

RUN NO. 42/ 0 RN/L = 2.26 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-6.364	.105	-.17620	.01330	.09560	.00660	-.00380	.00030	.04960	.04600
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 41/ 0 RN/L = 2.26 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-4.266	-4.017	-.14700	.02180	.10170	.05560	-.00360	.00070	.05550	.04620
-4.238	.113	-.14180	.01740	.09520	.00530	-.00350	.00020	.04750	.04770
-4.212	4.253	-.13590	.01720	.10250	-.04200	-.00340	-.00020	.05500	.04750
GRADIENT		.00134	-.00056	.00010	-.01180	.00027	-.00011	-.00006	.00016

RUN NO. 37/ 0 RN/L = 2.24 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-.033	-6.092	-.09840	.04050	.10230	.09370	-.01260	.00080	.05440	.04790
-.031	-4.024	-.09510	.03830	.09800	.06020	-.00800	.00060	.05010	.04790
-.050	.099	-.08990	.03270	.09420	.00000	-.00150	.00020	.04630	.04790
-.009	4.260	-.08270	.03170	.09960	-.05340	.00090	-.00020	.05170	.04790
.003	6.325	-.07970	.03220	.10160	-.08160	.00240	-.00050	.05400	.04760
GRADIENT		.00150	-.00080	.00019	-.01371	.00107	-.00010	.00019	.00000

AMES11-019(IAB1) LVAP

TANK - ELVN-L HL SEALED

(RETT13) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 8.000 ELV-0B = .000
 RUDDER = .000 SPDBRK = .000
 MACH = .600 RN/L = 2.250

RUN NO. 38/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
4.220	-4.021	-.04330	.05250	.09240	.05900	-.00680	.00040	.04730	.04510
4.214	.112	-.03590	.04640	.09250	-.00010	-.00230	.00000	.04640	.04610
4.222	4.263	-.02920	.04450	.09510	-.06060	.00340	-.00040	.04600	.04910
	GRADIENT	.00170	-.00097	.00033	-.01444	.00123	-.00010	-.00016	.00048

RUN NO. 39/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
8.470	.103	.01740	.05950	.08650	.00250	-.00270	.00000	.04130	.04520
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 40/ 0 RN/L = 2.27 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
10.604	.111	.05800	.05920	.08220	.00400	-.00270	.00000	.04040	.04180
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

AMES11-019(IAB1) LVAP

TANK - ELVN-L HL SEALED

(RETT14) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 8.000 ELV-0B = -4.000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.400 RN/L = 2.250

RUN NO. 51/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-6.870	-4.081	-.24070	.03280	.16530	.07550	-.01230	.00220	.06510	.10020
-6.859	-1.963	-.23140	.02580	.16250	.04030	-.00820	.00160	.06450	.09800
-6.830	.171	-.22150	.01860	.16340	.00780	-.00580	.00110	.06560	.09780
-6.819	2.298	-.21800	.01650	.16570	-.02280	-.00290	.00070	.06610	.09960
-6.804	4.425	-.21410	.01480	.16800	-.05730	.00030	.00010	.06830	.09970
	GRADIENT	.00313	-.00213	.00040	-.01545	.00143	-.00024	.00038	.00003

DATE 17 OCT 75

IABIA - FORCE SOURCE DATA TABULATION

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AMES11-019(IAB1) LVAP TANK - ELVN-L HL SEALED

(RETT14) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 8.000 ELV-0B = -4.000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.400 RN/L = 2.250

RUN NO. 52/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-4.645	-6.240	-.19080	.03120	.16760	.11300	-.01620	.00120	.06590	.10170
-4.632	-4.111	-.18430	.02720	.16330	.07350	-.01040	.00090	.06370	.09960
-4.614	.142	-.16710	.01490	.16250	.00490	-.00320	.00030	.06280	.09970
-4.580	4.391	-.16520	.01610	.16680	-.06020	.00200	-.00010	.06600	.10080
-4.563	6.536	-.16030	.01410	.16790	-.09520	.00340	-.00050	.06790	.10000
	GRADIENT	.00225	-.00131	.00041	-.01573	.00146	-.00012	.00027	.00014

RUN NO. 53/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-2.393	-6.258	-.15150	.03970	.16420	.11260	-.01640	.00110	.06340	.10080
-2.384	-2.016	-.13430	.02790	.16140	.03720	-.00580	.00050	.06170	.09970
-2.368	2.248	-.12470	.02150	.16320	-.02870	.00100	.00000	.06270	.10050
-2.333	6.506	-.11770	.02040	.16540	-.10050	.00600	-.00050	.06480	.10060
	GRADIENT	.00225	-.00150	.00042	-.01545	.00159	-.00012	.00023	.00019

RUN NO. 54/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-.136	-6.268	-.11550	.05100	.16170	.10830	-.01470	.00110	.06130	.10040
-.138	-4.135	-.10540	.04390	.16050	.06760	-.00880	.00080	.06080	.09970
-.142	-2.018	-.09400	.03570	.16040	.03230	-.00430	.00050	.06010	.10030
-.159	.104	-.08900	.02920	.16160	.00200	-.00160	.00020	.06020	.10140
-.131	4.353	-.08770	.03140	.16180	-.06250	.00360	-.00030	.06050	.10130
-.107	6.490	-.08410	.03100	.16310	-.10080	.00730	-.00060	.06200	.10110
	GRADIENT	.00190	-.00138	.00018	-.01522	.00142	-.00013	-.00002	.00019

RUN NO. 55/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
2.097	-6.255	-.09180	.06530	.15950	.10760	-.01450	.00100	.06170	.09780
2.079	-2.912	-.06960	.04820	.15720	.03220	-.00440	.00040	.05870	.09850
2.078	2.236	-.05980	.04130	.15870	-.02920	.00150	-.00010	.05850	.10020
2.118	6.493	-.05660	.04390	.15980	-.10230	.00820	-.00060	.05990	.09990
	GRADIENT	.00231	-.00162	.00035	-.01445	.00139	-.00012	-.00005	.00040

AMES11-019(TAB1) LVAP TANK - ELVN-L HL SEALED

(RETT14) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 8.000 ELV-09 = -4.000
 RUDDER = .000 SPD8RK = .000
 MACH = 1.400 RN/L = 2.250

RUN NO. 56/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
4.292	-6.246	-.06100	.07210	.15640	.11130	-.01410	.00090	.05790	.09850
4.282	-4.110	-.04640	.06160	.15370	.07230	-.01090	.00060	.05620	.09750
4.264	.118	-.03840	.05330	.15180	.00240	-.00170	.00010	.05300	.09880
4.280	4.376	-.03220	.05210	.15340	-.06780	.00530	-.00040	.05430	.09910
4.295	6.525	-.02740	.05190	.15460	-.10910	.00920	-.00070	.05600	.09860
GRADIENT		.00167	-.00112	-.00003	-.01651	.00191	-.00012	-.00022	.00019

RUN NO. 57/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
6.493	-4.093	-.01350	.06640	.15360	.07560	-.01160	.00050	.05600	.09760
6.483	-1.984	-.01280	.06420	.15060	.03540	-.00540	.00030	.05350	.09710
6.479	.132	-.00920	.06150	.15130	.00340	-.00270	.00010	.05300	.09830
6.480	2.272	-.00420	.05880	.15020	-.03000	-.00010	-.00020	.05350	.09670
6.483	4.402	.00010	.05740	.15250	-.06950	.00520	-.00040	.05440	.09810
GRADIENT		.00169	-.00110	-.00012	-.01674	.00183	-.00011	-.00015	.00003

AMES11-019(TAB1) LVAP TANK - ELVN-L HL SEALED

(RETT15) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 8.000 ELV-08 = 6.000
 RUDDER = .000 SPD8RK = .000
 MACH = .900 RN/L = 2.250

RUN NO. 65/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-6.591	-4.039	-.20470	.02280	.12370	.06270	-.01050	.00080	.07240	.05130
-6.598	-1.964	-.19810	.01610	.12270	.03520	-.00730	.00060	.06660	.05610
-6.565	.141	-.19050	.01080	.11960	.00750	-.00440	.00030	.06930	.05030
-6.550	2.241	-.18850	.01070	.12410	-.02110	-.00050	.00010	.07140	.05270
-6.533	4.330	-.19040	.01400	.12830	-.04740	.00060	-.00010	.07380	.05450
GRADIENT		.00182	-.00110	.00051	-.01320	.00138	-.00011	.00036	.00014

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IAB1A - FORCE SOURCE DATA TABULATION

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AMES11-019(IAB1) LVAP TANK - ELVN-L HL SEALED

(RETT15) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 IN. YMRP = .0000 IN. YT
BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
SCALE = .0300

PARAMETRIC DATA

ELV-IB = 8.000 ELV-OB = 6.000
RUDDER = .000 SPDBRK = .000
MACH = .900 RN/L = 2.250

RUN NO. 66/ 0 RN/L = 2.26 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-4.417	-6.148	-.17740	.03310	.12710	.09880	-.01700	.00100	.07160	.05550
-4.408	-4.054	-.17050	.02860	.12350	.06740	-.01310	.00080	.06540	.05810
-4.403	.129	-.15220	.01520	.11790	.00590	-.00430	.00020	.06730	.05060
-4.369	4.317	-.15360	.01940	.12460	-.05140	.00220	-.00020	.07709	.04760
-4.353	6.412	-.15140	.02080	.12790	-.08370	.00670	-.00050	.07780	.05010
GRADIENT		.00202	-.00110	.00013	-.01419	.00183	-.00012	.00139	-.00125

RUN NO. 67/ 0 RN/L = 2.26 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-2.262	-6.155	-.14490	.03940	.12490	.09890	-.01720	.00090	.06740	.05750
-2.255	-1.979	-.12750	.02750	.11870	.03560	-.00860	.00040	.06080	.05790
-2.239	2.220	-.12020	.02330	.12030	-.02750	.00190	.00000	.06890	.05140
-2.209	6.403	-.12070	.02770	.12540	-.08890	.00860	-.00050	.07300	.05240
GRADIENT		.00174	-.00100	.00038	-.01503	.00250	-.00010	.00193	-.00155

RUN NO. 68/ 0 RN/L = 2.26 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-.095	-6.177	-.11760	.04670	.12140	.10840	-.01930	.00090	.07390	.04750
-.091	-4.081	-.10830	.04080	.11910	.07300	-.01440	.00060	.06700	.05210
-.108	.112	-.09180	.02640	.11580	.00360	-.00360	.00010	.06100	.05480
-.080	4.301	-.09520	.03170	.12230	-.06420	.00750	-.00020	.06950	.05280
-.065	6.401	-.09540	.03420	.12450	-.09780	.01110	-.00050	.07130	.05320
GRADIENT		.00156	-.00109	.00038	-.01637	.00261	-.00010	.00030	.00008

RUN NO. 69/ 0 RN/L = 2.26 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
2.081	-6.180	-.08570	.05160	.11870	.10940	-.01800	.00080	.06760	.05110
2.077	-1.990	-.06610	.03760	.11540	.03640	-.00880	.00030	.06620	.04920
2.078	2.207	-.06240	.03450	.11810	-.03420	.00490	-.00010	.06920	.04890
2.098	6.413	-.06120	.03820	.12250	-.10320	.01220	-.00060	.06900	.05350
GRADIENT		.00088	-.00074	.00064	-.01682	.00326	-.00010	.00071	-.00007

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1A81A - FORCE SOURCE DATA TABULATION

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AMES11-019(1A81) LVAP TANK - ELVN-L HL SEALED

(RETT15) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 8.000 ELV-0B = 6.000
 RUDDER = .000 SPDBRK = .000
 MACH = .900 RN/L = 2.250

RUN NO. 70/ 0 RN/L = 2.26 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
4.246	-6.164	-.04850	.05570	.11830	.10660	-.01670	.00080	.06670	.05160
4.246	-4.059	-.04220	.05130	.11530	.06870	-.01240	.00050	.06270	.05260
4.231	.120	-.02290	.03630	.11350	.00190	-.00330	.00000	.06120	.05230
4.248	4.308	-.02760	.04200	.11710	-.06600	.00780	-.00030	.05890	.04820
4.252	6.416	-.02290	.04170	.11920	-.09850	.01070	-.00060	.06910	.05010
GRADIENT		.00174	-.00111	.00022	-.01610	.00241	-.00010	.00074	-.00053

RUN NO. 71/ 0 RN/L = 2.26 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
5.340	-4.058	-.02430	.05310	.11380	.06710	-.01090	.00050	.06620	.04760
5.336	-1.966	-.01170	.04440	.11210	.03310	-.00730	.00020	.06140	.05070
5.326	.124	-.00470	.03860	.11240	.00140	-.00280	.00000	.06160	.05080
5.331	2.225	-.00780	.04140	.11500	-.03330	.00410	-.00010	.06450	.05050
5.337	4.319	-.00790	.04300	.11570	-.06430	.00710	-.00030	.06800	.04770
GRADIENT		.00175	-.00111	.00032	-.01572	.00226	-.00009	.00032	-.00000

AMES11-019(1A81) LVAP TANK - ELVN-L HL SEALED

(RETT16) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 8.000 ELV-0B = 6.000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.100 RN/L = 2.250

RUN NO. 58/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-6.776	-4.068	-.21560	.01680	.16560	.08010	-.01770	.00160	.08220	.08340
-6.767	-1.970	-.20530	.00990	.16360	.04380	-.01170	.00120	.07680	.08680
-6.734	.149	-.19120	-.00010	.16200	.00780	-.00480	.00090	.07650	.08550
-6.721	2.262	-.19450	.00190	.16600	-.03000	.00280	.00030	.07880	.08720
-6.703	4.372	-.19850	.00550	.16780	-.06170	.00570	.00000	.08000	.08780
GRADIENT		.00213	-.00145	.00032	-.01693	.00290	-.00019	-.00011	.00044

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IABIA - FORCE SOURCE DATA TABULATION

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AMES11-019(IAB1) LVAP TANK - ELVN-L HL SEALED

(RETT18) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = 6.000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.100 RN/L = 2.250

RUN NO. 59/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-4.560	-6.201	-.17390	.02050	.16780	.11330	-.02260	.00120	.07810	.08970
-4.547	-4.093	-.16580	.01570	.16360	.07510	-.01520	.00090	.07580	.08780
-4.543	.124	-.14560	.00100	.15960	.00440	-.00250	.00030	.07220	.08740
-4.502	4.346	-.15360	.00850	.16300	-.06100	.00530	-.00020	.07590	.08710
-4.487	6.460	-.15330	.00990	.16520	-.09520	.00930	-.00050	.07960	.08560
GRADIENT		.00145	-.00085	-.00007	-.01613	.00243	-.00013	.00001	-.00008

RUN NO. 60/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-2.341	-6.218	-.13850	.02920	.16580	.11710	-.02340	.00110	.07440	.09140
-2.330	-2.014	-.12010	.01800	.15910	.04120	-.00990	.00050	.07260	.08650
-2.319	2.224	-.11350	.01290	.15830	-.03230	.00380	.00000	.07090	.08740
-2.281	6.448	-.11700	.01850	.16230	-.09910	.00970	-.00050	.07630	.08600
GRADIENT		.00156	-.00120	-.00019	-.01734	.00323	-.00012	-.00040	.00021

RUN NO. 61/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-.127	-6.218	-.10500	.03780	.16410	.11500	-.02310	.00100	.07380	.09030
-.119	-4.104	-.09590	.03290	.15860	.07200	-.01390	.00070	.07180	.08680
-.129	.113	-.07800	.01860	.15870	.00580	-.00560	.00020	.06930	.08940
-.090	4.322	-.08120	.02500	.15700	-.06960	.00940	-.00030	.06890	.08810
-.074	6.445	-.08000	.02620	.15970	-.10600	.01300	-.00050	.07260	.08710
GRADIENT		.00175	-.00094	-.00019	-.01680	.00276	-.00012	-.00034	.00015

RUN NO. 62/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
2.083	-6.220	-.07900	.04860	.16060	.11570	-.02220	.00090	.07190	.08870
2.075	-2.011	-.06130	.03560	.15440	.04050	-.01100	.00040	.06780	.08660
2.085	2.222	-.05380	.03090	.15240	-.03330	.00340	-.00010	.06590	.08650
2.123	6.453	-.05260	.03610	.15910	-.10900	.01370	-.00060	.07060	.08850
GRADIENT		.00177	-.00111	-.00047	-.01743	.00340	-.00012	-.00045	-.00002

AMES11-019(1A81) LVAP TANK - ELVN-L HL SEALED

(RETT16) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = 6.000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.100 RN/L = 2.250

RUN NO. 63/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
4.244	-6.210	-.04230	.05140	.15630	.12020	-.02290	.00090	.06970	.06650
4.243	-4.086	-.03690	.04640	.15310	.07830	-.01750	.00060	.06730	.08580
4.240	.117	-.02420	.03700	.14760	.00370	-.00460	.00010	.06230	.08530
4.266	4.337	-.02380	.04070	.14960	-.07350	.01100	-.00040	.06510	.08450
4.279	6.467	-.01720	.03970	.15270	-.11360	.01590	-.00070	.06770	.08500
GRADIENT		.00155	-.00068	-.00041	-.01802	.00338	-.00012	-.00026	-.00015

RUN NO. 64/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
6.447	-4.080	.00040	.04820	.15060	.08030	-.01640	.00060	.06420	.08640
6.442	-1.988	.00550	.04360	.14740	.03980	-.00880	.00030	.06270	.08470
6.437	.125	.00850	.04080	.14570	.00430	-.00430	.00010	.06080	.08490
6.440	2.249	.01040	.04040	.14350	-.03490	.00280	-.00020	.05980	.08370
6.455	4.361	.01330	.04220	.14540	-.07320	.00870	-.00040	.06160	.08380
GRADIENT		.00145	-.00072	-.00068	-.01807	.00293	-.00012	-.00038	-.00029

AMES11-019(1A81) LVAP TANK - ELVN-L HL SEALED

(RETT17) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = 10.000 ELV-08 = 4.000
 RUDDER = .000 SPDBRK = .000
 MACH = .900 RN/L = 2.250

RUN NO. 85/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-6.602	-4.024	-.20710	.02270	.12660	.06480	-.01170	.00080	.06740	.05920
-6.594	-1.946	-.19780	.01610	.12200	.03420	-.00720	.00050	.06820	.05380
-6.574	.156	-.19000	.01080	.11990	.00710	-.00450	.00030	.06930	.05060
-6.560	2.251	-.18950	.01110	.12560	-.02150	-.00040	.00010	.07200	.05350
-6.545	4.342	-.19140	.01440	.12920	-.04810	.00110	-.00020	.07210	.05710
GRADIENT		.00190	-.00103	.00042	-.01345	.00155	-.00011	.00063	-.00021



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AMES11-019(1A81) LVAP TANK - ELVN-L HL SEALED

(RETT17) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = .976.0000 IN. XT
LREF = 1297.0000 IN. YMRP = .0000 IN. YT
BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
SCALE = .0300

PARAMETRIC DATA

ELV-18 = 10.000 ELV-08 = 4.000
RUDDER = .000 SPDRBK = .000
MACH = .900 RN/L = 2.250

RUN NO. 86/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-4.425	-6.135	-.17720	.03260	.12760	.09930	-.01760	.00100	.07080	.05680
-4.417	-4.043	-.17230	.02880	.12350	.06660	-.01310	.00080	.06710	.05640
-4.411	.144	-.15250	.01520	.11780	.00630	-.00470	.00020	.06610	.05170
-4.371	4.319	-.15280	.01950	.12450	-.05160	.00220	-.00020	.07300	.05150
-4.358	6.417	-.15060	.02060	.12920	-.08480	.00730	-.00050	.07480	.05440
GRADIENT		.00233	-.00111	.00012	-.01414	.00183	-.00012	.00071	-.00059

RUN NO. 87/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-2.250	-6.147	-.14380	.03940	.12280	.09890	-.01710	.00090	.07290	.04990
-2.247	-1.972	-.12730	.02750	.11800	.03570	-.00860	.00040	.06260	.05540
-2.234	2.223	-.12050	.02340	.11980	-.02690	.00170	.00000	.07030	.04950
-2.202	6.402	-.12040	.02760	.12530	-.08770	.00820	-.00050	.07400	.05130
GRADIENT		.00162	-.00098	.00043	-.01492	.00246	-.00010	.00184	-.00141

RUN NO. 88/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-.100	-6.167	-.11770	.04630	.12350	.11010	-.01990	.00090	.06910	.05440
-.096	-4.071	-.10930	.04090	.12060	.07380	-.01470	.00060	.06490	.05570
-.109	.119	-.09290	.02730	.11510	.00410	-.00370	.00010	.06180	.05330
-.081	4.305	-.09460	.03140	.12280	-.06490	.00790	-.00020	.07120	.05160
-.065	6.407	-.09470	.03400	.12480	-.09880	.01140	-.00050	.07350	.05130
GRADIENT		.00176	-.00113	.00026	-.01656	.00270	-.00010	.00075	-.00049

RUN NO. 89/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
2.077	-6.170	-.08550	.05150	.11970	.11100	-.01860	.00080	.06580	.05390
2.072	-1.982	-.06590	.03750	.11680	.03770	-.00910	.00030	.06500	.05180
2.071	2.214	-.06230	.03410	.11970	-.03440	.00520	-.00010	.06760	.05210
2.092	6.412	-.06320	.03860	.12090	-.10180	.01180	-.00050	.07340	.04750
GRADIENT		.00086	-.00081	.00069	-.01718	.00341	-.00010	.00062	.00007

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DATE 17 OCT 75

IABIA - FORCE SOURCE DATA TABULATION

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AMES11-019(IAB1) LVAP TANK - ELVN-L HL SEALED

(RETT17) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 10.000 ELV-0B = 4.000
 RUDDER = .000 SPDBRK = .000
 MACH = .900 RN/L = 2.250

RUN NO. 90/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
4.244	-6.155	-.04970	.05580	.11690	.10610	-.01630	.00080	.06760	.04930
4.250	-4.055	-.04120	.05100	.11640	.06950	-.01280	.00050	.06180	.05460
4.231	.123	-.02360	.03670	.11200	.00200	-.00340	.00000	.06320	.04880
4.246	4.313	-.02710	.04180	.11680	-.06580	.00780	-.00030	.06960	.04720
4.254	6.420	-.02320	.04180	.11820	-.09900	.01100	-.00060	.07100	.04720
GRADIENT		.00168	-.00110	.00005	-.01617	.00246	-.00010	.00093	-.00088

RUN NO. 91/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
6.424	-4.044	-.00870	.05520	.11420	.06800	-.01020	.00040	.06510	.04910
6.415	-1.959	.00240	.04660	.11190	.03310	-.00650	.00020	.06300	.04890
6.404	.133	.01040	.04010	.11120	.00130	-.00220	.00000	.06220	.04900
6.405	2.236	.00700	.04300	.11320	-.03260	.00360	-.00010	.06560	.04760
6.410	4.337	.00720	.04450	.11490	-.06480	.00650	-.00030	.06790	.04700
GRADIENT		.00173	-.00119	.00013	-.01581	.00208	-.00008	.00039	-.00026

AMES11-019(IAB1) LVAP TANK - ELVN-L HL SEALED

(RETT18) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 10.000 ELV-0B = 4.000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.100 RN/L = 2.250

RUN NO. 92/ 0 RN/L = 2.26 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-6.769	.142	-.18910	-.00230	.16240	.00450	-.00280	.00070	.07670	.08570
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 93/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-4.550	-4.078	-.16550	.01540	.16350	.07360	-.01490	.00090	.07540	.08810
-4.547	.131	-.14370	-.00050	.15890	.00350	-.00230	.00030	.07160	.08730
-4.499	4.343	-.15270	.00920	.16260	-.06120	.00560	-.00020	.07550	.08710
GRADIENT		.00152	-.00074	-.00011	-.01601	.00243	-.00013	.00001	-.00012

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AMES11-019(IAB1) LVAP

TANK - ELVN-L HL SEALED

(RETT18) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 10.000 ELV-0B = 4.000
 RUDDER = .000 SPD8RK = .000
 MACH = 1.100 RN/L = 2.250

RUN NO. 94/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-.146	-6.214	-.10300	.03820	.16270	.11500	-.02200	.00100	.07330	.08940
-.141	-4.102	-.09550	.03380	.15910	.07350	-.01440	.00070	.07140	.08770
-.164	.110	-.07830	.01790	.15790	.00440	-.00540	.00020	.06930	.08860
-.122	4.328	-.08270	.02500	.15680	-.07110	.01000	-.00030	.06960	.08720
-.105	6.449	-.08070	.02570	.15940	-.10560	.01300	-.00060	.07220	.08720
GRADIENT		.00152	-.00104	-.00027	-.01715	.00289	-.00012	-.00021	-.00006

RUN NO. 95/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
4.243	-4.079	-.03700	.04690	.15280	.07860	-.01780	.00060	.06700	.08580
4.232	.123	-.02450	.03660	.14750	.00250	-.00450	.00010	.06270	.08480
4.258	4.345	-.02520	.04080	.15000	-.07540	.01130	-.00040	.06590	.08410
GRADIENT		.00140	-.00072	-.00033	-.01828	.00345	-.00012	-.00013	-.00020

RUN NO. 96/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
6.423	.132	.00630	.04140	.14560	.00100	-.00330	.00010	.05990	.08570
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

AMES11-019(IAB1) LVAP

TANK - ELVN-L HL SEALED

(RETT19) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 10.000 ELV-0B = 4.000
 RUDDER = .000 SPD8RK = .000
 MACH = 1.250 RN/L = 2.250

RUN NO. 97/ 0 RN/L = 2.27 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-4.604	-4.096	-.18220	.02570	.16190	.07710	-.01360	.00090	.06430	.09760
-4.600	.128	-.16170	.01050	.16060	.00770	-.00450	.00040	.06220	.09840
-4.532	4.378	-.16480	.01670	.16220	-.06240	.00450	-.00010	.06460	.09760
GRADIENT		.00205	-.00106	.00004	-.01646	.00214	-.00012	.00004	-.00000

AMES11-019(IAB1) LVAP TANK - ELVN-L HL SEALED

(RETT19) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = 10.000 ELV-08 = 4.000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.250 RN/L = 2.250

RUN NO. 98/ 0 RN/L = 2.27 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-.119	-4.124	-.10590	.04340	.15670	.07390	-.01330	.00080	.05210	.09760
-.142	.107	-.08780	.02750	.15860	.00220	-.00220	.00020	.05950	.09910
-.105	4.340	-.08850	.03220	.15750	-.06780	.00740	-.00030	.05950	.09800
GRADIENT		.00206	-.00132	.00009	-.01674	.00245	-.00013	.00005	.00005

RUN NO. 99/ 0 RN/L = 2.27 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
4.277	-4.099	-.04720	.05890	.15130	.07570	-.01400	.00070	.05480	.09650
4.264	.123	-.03830	.05060	.14930	.00280	-.00380	.00010	.05380	.09550
4.286	4.365	-.03330	.05100	.15020	-.07170	.00880	-.00040	.05550	.09470
GRADIENT		.00164	-.00093	-.00013	-.01742	.00269	-.00013	.00008	-.00021

AMES11-019(IAB1) LVAP TANK - ELVN-L HL SEALED

(RETT20) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.400 RN/L = 2.250

RUN NO. 72/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-.141	-6.260	-.11540	.05110	.16290	.10980	-.01530	.00110	.06250	.10040
-.145	-4.131	-.10480	.04370	.16110	.06940	-.00970	.00080	.06090	.10020
-.146	-2.019	-.09260	.03530	.16020	.03320	-.00490	.00050	.06050	.09970
-.164	.103	-.08850	.02930	.16130	.00400	-.00230	.00020	.06000	.10130
-.150	2.228	-.08630	.02940	.16370	-.02950	.00230	.00000	.06120	.10250
-.137	4.353	-.08610	.03100	.16450	-.06350	.00510	-.00020	.06100	.10350
-.115	6.492	-.08190	.03040	.16370	-.10110	.00770	-.00060	.06220	.10150
GRADIENT		.00206	-.00147	.00049	-.01548	.00173	-.00012	.00004	.00044

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AMES11-019(IAB1) LVAP TANK - ELVN-L HL SEALED

(RETT21) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.250 RN/L = 2.250

RUN NO. 74/ 0 RN/L = 2.28 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-.152	-6.235	-.11600	.04700	.16300	.10730	-.01560	.00110	.06590	.09710
-.140	-4.119	-.10790	.04300	.15900	.07290	-.01300	.00080	.06330	.09570
-.146	-2.011	-.09680	.03470	.16070	.03640	-.00780	.00050	.06260	.09810
-.148	.104	-.08840	.02830	.16090	.00350	-.00240	.00020	.06350	.09740
-.103	2.222	-.08550	.02960	.16080	-.03280	.00440	.00000	.06250	.09830
-.086	4.343	-.08720	.03270	.15980	-.06810	.00810	-.00030	.06230	.09750
-.072	6.477	-.08410	.03260	.16150	-.09910	.00730	-.00060	.06550	.09600
GRADIENT		.00249	-.00121	.00008	-.01660	.00257	-.00013	-.00010	.00018

AMES11-019(IAB1) LVAP TANK - ELVN-L HL SEALED

(RETT22) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.100 RN/L = 2.250

RUN NO. 76/ 0 RN/L = 2.26 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-.165	-6.203	-.10370	.03700	.16590	.11290	-.02180	.00100	.07770	.08820
-.161	-4.093	-.09670	.03310	.16190	.07170	-.01430	.00070	.07600	.08590
-.162	-1.995	-.08660	.02580	.16040	.03650	-.00920	.00040	.07490	.08550
-.167	.112	-.07810	.01870	.16160	.00530	-.00530	.00020	.07350	.08810
-.127	2.222	-.08130	.02350	.15790	-.03610	.00610	-.00010	.07110	.08680
-.110	4.330	-.08150	.02560	.15930	-.07140	.01060	-.00030	.07160	.08770
-.093	6.451	-.07990	.02650	.16190	-.10560	.01280	-.00060	.07540	.08650
GRADIENT		.00169	-.00082	-.00037	-.01704	.00309	-.00012	-.00060	.00023

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AMES11-019(IAB1) LVAP TANK - ELVN-L HL SEALED

(RETT23) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000
 RUDDER = .000 SPOBRK = .000
 MACH = 1.400 RN/L = 2.250

RUN NO. 73/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

BETAT	ALPHAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
.144	-6.846	-.21836	.01740	.16290	.01070	-.00640	.00110	.06380	.09910
.118	-4.610	-.16700	.01530	.16190	.00700	-.00360	.00030	.06160	.10030
.102	-2.390	-.12690	.02140	.16060	.00670	-.00380	.00030	.06040	.10020
.088	-.166	-.08920	.02930	.16170	.00370	-.00220	.00020	.06060	.10110
.092	2.066	-.06200	.04140	.15930	.00250	-.00160	.00010	.05970	.09960
.101	4.260	-.03780	.05270	.15210	.00350	-.00220	.00010	.05330	.09880
.107	5.369	-.02270	.05640	.14970	.00360	-.00240	.00010	.05220	.09750
GRADIENT		.01457	.00427	-.00094	-.00051	.00023	-.00003	-.00078	-.00016

AMES11-019(IAB1) LVAP TANK - ELVN-L HL SEALED

(RETT24) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000
 RUDDER = .000 SPOBRK = .000
 MACH = 1.250 RN/L = 2.250

RUN NO. 75/ 0 RN/L = 2.28 GRADIENT INTERVAL = -5.00/ 5.00

BETAT	ALPHAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
.138	-6.832	-.21210	.01030	.16390	.01040	-.00610	.00090	.06640	.09750
.110	-4.593	-.16260	.01040	.16170	.00940	-.00520	.00040	.06360	.09810
.097	-2.371	-.12510	.01890	.16160	.00650	-.00360	.00030	.06350	.09910
.087	-.146	-.08970	.02830	.16100	.00370	-.00260	.00020	.06260	.09840
.094	2.067	-.06600	.04080	.15840	.00330	-.00290	.00020	.06020	.09820
.103	4.262	-.04070	.05170	.15040	.00470	-.00430	.00020	.05600	.09440
.112	6.464	-.01010	.05750	.14930	.00490	-.00340	.00010	.05390	.09540
GRADIENT		.01368	.00472	-.00116	-.00057	.00011	-.00002	-.00083	-.00033

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IAB1A - FORCE SOURCE DATA TABULATION

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AMES11-019(IAB1) LVAP TANK - ELVN-L HL SEALED

(RETT25) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000
 RUDDER = .000 SPOBRK = .000
 MACH = 1.100 RN/L = 2.250

RUN NO. 77/ 0 RN/L = 2.26 GRADIENT INTERVAL = -5.00/ 5.00

BETAT	ALPHAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
.129	-6.770	-.18990	-.00180	.16430	.00750	-.00460	.00080	.07790	.08640
.110	-4.554	-.14610	.00080	.16150	.00470	-.00270	.00030	.07500	.08650
.099	-2.353	-.11040	.00880	.16020	.00410	-.00330	.00020	.07430	.08590
.097	-.160	-.08010	.01840	.16130	.00540	-.00570	.00020	.07390	.08740
.102	2.038	-.05530	.02880	.15650	.00200	-.00390	.00020	.07100	.08550
.108	4.227	-.02790	.03830	.15080	.00220	-.00430	.00010	.06650	.08430
.121	6.410	.00770	.03940	.14830	.00240	-.00410	.00010	.06540	.08290
	GRADIENT	.01328	.00433	-.00114	-.00032	-.00017	-.00002	-.00092	-.00022

AMES11-019(IAB1) LVAP TANK - ELVN-L HL SEALED

(RETT26) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000
 RUDDER = .000 SPOBRK = .000
 MACH = .900 RN/L = 2.250

RUN NO. 78/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-6.613	-4.024	-.20610	.02290	.12760	.06440	-.01170	.00090	.07810	.04950
-6.615	-1.948	-.19810	.01570	.12700	.03560	-.00790	.00060	.07260	.05440
-6.597	.147	-.19030	.01120	.12270	.00820	-.00510	.00030	.07130	.05140
-6.568	2.254	-.18940	.01160	.12600	-.02240	.00030	.00010	.07590	.05210
-6.547	4.343	-.19260	.01570	.13020	-.04860	.00130	-.00010	.07720	.05300
	GRADIENT	.00170	-.00088	.00030	-.01357	.00163	-.00012	.00007	.00022

RUN NO. 79/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-4.441	-6.135	-.17850	.03280	.13090	.10070	-.01850	.00100	.07470	.05620
-4.426	-4.039	-.17100	.02880	.12490	.06580	-.01270	.00080	.07470	.05020
-4.423	.139	-.15380	.01550	.12210	.00630	-.00470	.00020	.07450	.04760
-4.383	4.324	-.15500	.02050	.12800	-.05330	.00340	-.00020	.07680	.05120
-4.371	6.424	-.15200	.02090	.13320	-.08760	.00890	-.00050	.07660	.05660
	GRADIENT	.00191	-.00099	.00037	-.01424	.00193	-.00012	.00025	.00012

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AMES11-019(IAB1) LVAP

TANK - ELVN-L HL SEALED

(RETT26) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = .000 ELV-08 = .000
 RUDDER = .000 SPOBRK = .000
 MACH = .900 RN/L = 2.250

RUN NO. 80/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-2.264	-6.146	-.14500	.03960	.12590	.09830	-.01710	.00100	.07490	.05100
-2.259	-1.973	-.12730	.02720	.12260	.03620	-.00890	.00040	.06710	.05550
-2.245	2.225	-.12080	.02330	.12400	-.02730	.00210	.00000	.07240	.05160
-2.213	6.404	-.12040	.02770	.12870	-.08920	.00910	-.00050	.07720	.05150
GRADIENT		.00155	-.00093	.00033	-.01513	.00262	-.00010	.00126	-.00093

RUN NO. 81/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
-.111	-6.171	-.11770	.04610	.12690	.10940	-.01970	.00090	.07360	.05330
-.109	-4.072	-.10980	.04070	.12280	.07340	-.01440	.00060	.06760	.05520
-.121	.118	-.09140	.02580	.12010	.00400	-.00370	.00010	.06760	.05250
-.100	4.312	-.09530	.03150	.12680	-.06600	.00830	-.00020	.07530	.05150
-.083	6.413	-.09530	.03400	.12900	-.09950	.01210	-.00050	.07570	.05330
GRADIENT		.00173	-.00110	.00048	-.01663	.00271	-.00010	.00092	-.00044

RUN NO. 82/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
2.064	-6.170	-.08660	.05160	.12290	.11040	-.01860	.00080	.07340	.04950
2.061	-1.985	-.06680	.03740	.12110	.03750	-.00920	.00030	.06720	.05390
2.062	2.217	-.06250	.03420	.12220	-.03520	.00570	-.00010	.07360	.04930
2.084	6.419	-.06320	.03870	.12460	-.10330	.01260	-.00050	.07690	.04770
GRADIENT		.00102	-.00076	.00043	-.01730	.00355	-.00010	.00152	-.00109

RUN NO. 83/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
4.229	-6.156	-.04950	.05550	.12070	.10740	-.01730	.00080	.07160	.04910
4.231	-4.058	-.04260	.05100	.11970	.07060	-.01330	.00050	.06950	.05020
4.215	.118	-.02420	.03690	.11820	.00160	-.00290	.00010	.06810	.05010
4.232	4.318	-.02710	.04170	.12150	-.06750	.00870	-.00030	.07420	.04730
4.241	6.424	-.02360	.04170	.12290	-.10020	.01160	-.00060	.07510	.04780
GRADIENT		.00185	-.00111	.00022	-.01649	.00263	-.00010	.00056	-.00035

DATE 17 OCT 75

IABIA - FORCE SOURCE DATA TABULATION

PAGE 85

AMES11-019(IAB1) LVAP TANK - ELVN-L HL SEALED

(RETT26) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000
 RUDDER = .000 SPDBRK = .000
 MACH = .900 RN/L = 2.250

RUN NO. 84/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHAT	BETAT	CNF	CLMF	CA	CY	CYNF	CBL	CABT	CAF
6.404	-4.048	-.01010	.05540	.11850	.06950	-.01130	.00040	.07360	.04490
6.398	-1.960	.00210	.04680	.11730	.03460	-.00730	.00020	.06810	.04920
6.386	.130	.00930	.04020	.11580	.00150	-.00230	.00000	.06690	.04890
6.391	2.234	.00720	.04280	.11770	-.03400	.00460	-.00010	.07150	.04620
6.395	4.338	.00690	.04420	.11920	-.06670	.00770	-.00030	.07180	.04740
GRADIENT		.00186	-.00126	.00009	-.01626	.00238	-.00008	-.00001	.00009

AMES11-019(IAB1) LVAP ORBITER SPDBRK HL UNSEAL

(RETH01) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000
 RUDDER = .000 SPDBRK = 50.000
 MACH = 1.100 RN/L = 3.000

RUN NO. 1/ 0 RN/L = 2.99 GRADIENT INTERVAL = -5.00/ 5.00

BETA0	ALPHA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
.005	-6.286	.13300	.06490	-.26560	.39860	-.14120	.20610
-.006	-4.148	.13130	.06980	-.26230	.39360	-.15520	.22500
-.021	-2.025	.13220	.07230	-.26380	.39600	-.15800	.23030
-.030	.092	.12820	.05980	-.25780	.38600	-.12140	.18120
-.026	2.226	.11030	.04170	-.22620	.33650	-.07580	.11750
-.018	4.337	.09870	.02650	-.20130	.30010	-.03930	.06580
-.001	6.460	.08130	.00970	-.17220	.25340	.00170	.00800
.009	8.583	.08290	-.00220	-.16890	.25180	.02490	-.02710
GRADIENT		-.00410	-.00552	.00752	-.01162	.01480	-.02032

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1A81A - FORCE SOURCE DATA TABULATION

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AMES11-019(1A81) LVAP ORBITER SPOBRK HL SEALED

(RETH02) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = .000 ELV-09 = .000
 RUDDER = .000 SPOBRK = 50.000
 MACH = .600 RN/L = 3.200

RUN NO. 2/ 0 RN/L = 3.24 GRADIENT INTERVAL = -5.00/ 5.00

BETA0	ALPHA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
-.006	-6.155	.05100	.02460	-.12060	.17160	-.06940	.09400
-.020	-4.065	.05090	.02260	-.11930	.17010	-.06400	.08660
-.028	-1.995	.05110	.02220	-.11990	.17110	-.06250	.08480
-.031	.078	.05270	.02230	-.12310	.17580	-.06150	.08380
-.032	2.167	.05500	.02290	-.12610	.18110	-.06170	.08450
-.026	4.242	.05770	.02150	-.13060	.18830	-.05630	.07780
-.007	6.338	.05780	.01910	-.13050	.18830	-.04670	.06580
	GRADIENT	.00084	-.00007	-.00139	.00223	.00078	-.00086

AMES11-019(1A81) LVAP ORBITER SPOBRK HL SEALED

(RETH03) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = .000 ELV-09 = .000
 RUDDER = .000 SPOBRK = 50.000
 MACH = .900 RN/L = 3.500

RUN NO. 3/ 0 RN/L = 3.51 GRADIENT INTERVAL = -5.00/ 5.00

BETA0	ALPHA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
.027	-6.277	.07120	.03870	-.16480	.23590	-.11220	.15090
.004	-4.157	.06640	.03470	-.15860	.22500	-.10420	.13890
-.020	-2.045	.05420	.03100	-.15500	.21930	-.09500	.12600
-.030	.070	.06400	.03150	-.15630	.22030	-.09630	.12780
-.035	2.209	.06540	.02980	-.16070	.22610	-.08580	.11560
-.028	4.323	.06590	.02120	-.16080	.22670	-.06050	.08170
.066	6.247	.06620	.02600	-.15770	.22390	-.06080	.08680
	GRADIENT	.00001	-.00133	-.00048	.00048	.00455	-.00588

AMES11-019(1A81) LVAP ORBITER ELVN-L HL UNSEAL

(RETH06) (14 OCT 75)

REFERENCE DATA

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SREF = 2690.0000 SQ.FT.  XMRP = 976.0000 IN. XT
LREF = 1297.0000 IN.      YMRP = .0000 IN. YT
BREF = 1297.0000 IN.      ZMRP = 400.0000 IN. ZT
SCALE = .0300

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PARAMETRIC DATA

ELV-1B	=	8.000	ELV-08	=	4.000
RUDDER	=	.000	SPDBRK	=	.000
MACH	=	.600	RN/L	=	2.250

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RUN NO. 11/ 0      RN/L = 2.24      GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO      BETAO      CHE1      CHEO      CHH1      CHH2      CHH3      CHH4
-6.048      -.007      .01900    .01270    -.02140    .04040    -.02750    .04020
GRADIENT      .00000    .00000    .00000    .00000    .00000    .00000    .00000

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RUN NO.    10/ 0    RN/L =    2.25    GRADIENT INTERVAL =    -5.00/    5.00

ALPHA0     BETA0     CHE1        CHE0        CHM1        CHM2        CHM3        CHM4
-4.013     -4.061     .01090     .01110     -.00930     .02010     -.02390     .03500
-3.984      .011     .02010     .01210     -.02390     .04400     -.02640     .03850
-3.968      4.081     .03170     .01240     -.04580     .07750     -.02710     .03960
          GRADIENT     .00255     .00016     -.00448     .00705     -.00039     .00056

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RUN NO.	BETA0	CH1	CH2	CH3	CH4
074	-6.097	.00860	.01110	-.00460	.01320
072	-4.067	.00920	.01170	-.00460	.01380
076	-.005	.02210	.01220	-.02780	.04990
087	4.063	.03320	.01150	-.04760	.08080
090	6.100	.03560	.01140	-.05290	.08850
	GRADIENT	.00295	-.00002	-.00529	.00824

RUN NO.	7/ 0	RN/L =	2.25	GRADIENT INTERVAL = -5.00/ 5.00				
ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4	
4.240	-4.061	.01400	.00850	-.01000	.02400	-.01170	.02020	
4.239	-.008	.02670	.00790	-.03420	.06090	-.01050	.01840	
4.236	4.070	.03450	.00630	-.05040	.08480	-.00580	.01200	
	GRADIENT	.00252	-.00027	-.00497	.00748	.00073	-.00101	

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RUN NO.      8/ 0      RN/L =      2.25      GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO      BETAO      CHE1      CHEO      CHM1      CHM2      CHM3      CHM4
8.382      -.008      .02500      -.00140      -.02910      .05410      .01600      -.01740
GRADIENT      .00000      .00000      .00000      .00000      .00000      .00000

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RUN NO.      9/ 0      RN/L =      2.25      GRADIENT INTERVAL = -5.00/ 5.00

ALPHAO      BETAO      CHE1      CHEO      CHM1      CHM2      CHM3      CHM4
10.453      .004      .02270      -.00710      -.02430      .04700      .03450      -.04150
GRADIENT      .00000      .00000      .00000      .00000      .00000      .00000

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IAB1A - FORCE SOURCE DATA TABULATION

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AMES11-019(IAB1) LVAP ORBITER ELVN-L HL UNSEAL

(RETH07) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = 4.000
 RUDDER = .000 SPDBRK = .000
 MACH = .900 RN/L = 2.250

RUN NO. 18/ 0 RN/L = 2.23 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
-11.207	-4.037	-.01290	.00570	.04500	-.05790	-.00930	.01500
-8.684	-2.018	-.00440	.00990	.02990	-.03430	-.02090	.03080
-6.128	.034	.00610	.01350	.00900	-.00300	-.02900	.04250
-6.115	2.098	.01030	.01590	-.00240	.01270	-.03540	.05120
-6.107	4.143	.01800	.01610	-.01820	.03620	-.03750	.05360
	GRADIENT	.00373	.00131	-.00775	.01148	-.00346	.00476

RUN NO. 17/ 0 RN/L = 2.23 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
-4.084	-6.127	-.01650	.00380	.05080	-.06730	-.00370	.00750
-4.075	-4.085	-.01370	.00730	.04680	-.06050	-.01320	.02060
-4.057	.023	.01140	.01470	.00060	.01080	-.03160	.04630
-4.038	4.117	.02250	.01640	-.02530	.04780	-.04010	.05660
-4.037	6.169	.03130	.01630	-.04410	.07540	-.03730	.05360
	GRADIENT	.00441	.00111	-.00879	.01321	-.00328	.00439

RUN NO. 16/ 0 RN/L = 2.23 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
-2.013	-6.133	-.01490	.00320	.04930	-.06410	-.00280	.00610
-2.004	-2.060	-.00010	.00930	.02390	-.02400	-.01940	.02870
-1.969	2.058	.01770	.01640	-.01360	.03130	-.03780	.05430
-1.958	6.150	.03340	.01740	-.05030	.08370	-.04290	.06030
	GRADIENT	.00432	.00172	-.00911	.01343	-.00447	.00622

RUN NO. 12/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
.059	-6.145	-.00980	.00650	.04170	-.05150	-.00960	.01610
.063	-4.101	-.00690	.00860	.03540	-.04240	-.01810	.02670
.066	-.005	.01950	.01450	-.01300	.03250	-.03320	.04770
.078	4.088	.03730	.01550	-.04880	.08610	-.03670	.05220
.082	6.135	.04480	.01530	-.06470	.10960	-.03470	.05000
	GRADIENT	.00540	.00084	-.01028	.01569	-.00227	.00311



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IABIA - FORCE SOURCE DATA TABULATION

(RETH07) (14 OCT 75)

AMES11-019(IAB1) LVAP ORBITER ELVN-L HL UNSEAL

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 IN. YMRP = .0000 IN. YT
BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
SCALE = .0300

ELV-1B = 8.000 ELV-08 = 4.000
RUDDER = .000 SPDRK = .000
MACH = .900 RN/L = 2.250

RUN NO. 13/ 0 RN/L = 2.24 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
2.177	-6.133	-.00540	.00960	.03440	-.03970	-.01680	.02640
2.184	-2.056	.01300	.01710	-.00210	.01510	-.03610	.05310
2.185	2.047	.03300	.01950	-.03810	.07110	-.03820	.05780
2.186	6.135	.04540	.01380	-.06540	.11080	-.02500	.03880
	GRADIENT	.00487	.00058	-.00877	.01365	-.00051	.00115

RUN NO. 14/ 0 RN/L = 2.24 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
4.257	-6.123	-.00200	.00920	.02670	-.02870	-.01140	.02060
4.260	-4.081	.00090	.01100	.02050	-.01960	-.01690	.02780
4.257	-.003	.02750	.01090	-.02810	.05560	-.01760	.02860
4.257	4.093	.04090	.00530	-.05020	.09100	-.00090	.00620
4.251	6.145	.04550	.00500	-.06580	.11120	.00390	.00110
	GRADIENT	.00489	-.00070	-.00865	.01353	.00196	-.00264

RUN NO. 15/ 0 RN/L = 2.23 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
6.353	-4.069	.00470	.00760	.01670	-.01200	-.00030	.00790
6.352	-2.035	.01830	.00570	-.00880	.02710	.00350	.00220
6.347	.010	.02410	-.00040	-.01620	.04030	.01720	-.01750
6.344	2.069	.02920	-.00150	-.02150	.05070	.02350	-.02490
6.340	4.114	.03430	-.00740	-.03260	.06690	.03130	-.03860
	GRADIENT	.00342	-.00182	-.00543	.00886	.00406	-.00587

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AMES11-019(IAB1) LVAP ORBITER ELVN-L HL UNSEAL

(RETH08) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = 4.000
 RUDDER = .000 SPD8RK = .000
 MACH = 1.100 RN/L = 3.000

RUN NO. 19/ 0 RN/L = 2.99 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
.064	-6.230	-.00680	.03830	.01170	-.01850	-.07100	.10930
.071	-4.159	.00190	.04020	-.00650	.00840	-.07120	.11140
.075	-.029	.02830	.02850	-.06170	.09000	-.04280	.07130
.094	4.123	.04190	.00910	-.07860	.12050	.00400	.00500
.103	6.207	.05130	.00160	-.08490	.13610	.02460	-.02300
	GRADIENT	.00483	-.00376	-.00870	.01353	.00908	-.01285

RUN NO. 20/ 0 RN/L = 2.99 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
2.216	-6.219	-.00710	.02880	.01710	-.02420	-.04950	.07830
2.214	-2.090	.01410	.02090	-.02610	.04020	-.02490	.04580
2.224	2.058	.02670	.00350	-.04880	.07550	.02000	-.01650
2.234	6.197	.04110	-.01050	-.06930	.11030	.05600	-.06650
	GRADIENT	.00304	-.00419	-.00547	.00851	.01082	-.01502

RUN NO. 21/ 0 RN/L = 2.99 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
4.330	-4.129	-.00750	.01450	.01650	-.02390	-.01160	.02620
4.329	-.008	.01400	-.00080	-.02370	.03770	-.02940	-.03030
4.334	4.139	.02770	-.01560	-.04470	.07230	.06870	-.08440
4.334	6.220	.03760	-.02240	-.06130	.09900	.07930	-.10170
	GRADIENT	.00426	-.00364	-.00740	.01163	.00971	-.01338



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IABIA - FORCE SOURCE DATA TABULATION

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AMES11-019(IAB1) LVAP ORBITER ELVN-L HL UNSEAL

(RETH09) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 978.0000 IN. XT
LREF = 1297.0000 IN. YMRP = .0000 IN. YT
BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
SCALE = .0300

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = 4.000
RUDDER = .000 SPDGRK = .000
MACH = 1.100 RN/L = 2.250

RUN NO. 25/ 0 RN/L = 2.24 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
-6.236	-4.085	.00990	.03190	-.02240	.03230	-.05750	.08930
-6.225	-2.030	.02200	.03240	-.04370	.06560	-.05730	.08980
-6.193	.032	.03990	.03250	-.07580	.11580	-.05800	.09050
-6.179	2.098	.04670	.03400	-.08720	.13390	-.06140	.09540
-6.167	4.163	.05180	.03920	-.09570	.14750	-.07380	.11300
	GRADIENT	.00526	.00079	-.00922	.01448	-.00178	.00257

RUN NO. 24/ 0 RN/L = 2.24 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
-4.143	-6.157	-.00740	.03240	.00780	-.01520	-.05910	.09150
-4.132	-4.105	.00620	.03490	-.01520	.02140	-.06360	.09850
-4.101	.017	.02760	.03830	-.07040	.10790	-.07160	.10990
-4.075	4.131	.04870	.03790	-.08910	.13680	-.06590	.10380
-4.067	6.191	.05600	.03030	-.10030	.15630	-.04690	.07710
	GRADIENT	.00516	.00036	-.00885	.01401	-.00028	.00064

RUN NO. 23/ 0 RN/L = 2.24 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
-2.045	-6.165	-.00810	.03470	.01250	-.02060	-.06530	.10000
-2.034	-2.072	.02020	.04190	-.03910	.05940	-.07640	.11830
-1.993	2.059	.04170	.03380	-.07590	.11760	-.05650	.09030
-1.978	6.163	.05120	.01540	-.09130	.14250	-.01090	.02630
	GRADIENT	.00520	-.00196	-.00891	.01409	.00482	-.00678

RUN NO. 26/ 0 RN/L = 2.24 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
.052	-6.173	-.00620	.03860	.01070	-.01690	-.07220	.11080
.055	-4.122	.00380	.03790	-.00890	.01270	-.06790	.10590
.063	-.022	.03050	.02810	-.05910	.08970	-.04260	.07070
.079	4.095	.03820	.01000	-.06980	.10800	.00230	.00770
.086	6.161	.04550	.00250	-.08110	.12660	.02380	-.02140
	GRADIENT	.00418	-.00340	-.00741	.01159	.00854	-.01195

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TABIA - FORCE SOURCE DATA TABULATION

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AMES11-019(TAB1) LVAP ORBITER ELVN-L HL UNSEAL

(RETH09) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = 4.000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.100 RN/L = 2.250

RUN NO. 27/ 0 RN/L = 2.24 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
2.173	-6.160	-.00780	.02900	.01620	-.02400	-.04970	.07870
2.175	-2.076	.01410	.02040	-.02750	.04160	-.02450	.04500
2.187	2.048	.02880	.00410	-.05360	.08240	.01970	-.01560
2.192	6.163	.04290	-.01170	-.07510	.11800	.05620	-.06790
GRADIENT		.00356	-.00395	-.00633	.00989	.01072	-.01469

RUN NO. 28/ 0 RN/L = 2.24 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
4.247	-6.141	-.00920	.01890	.02160	-.03080	-.02590	.04480
4.249	-4.095	-.00760	.01400	.01560	-.02320	-.01080	.02470
4.254	-.002	.01430	.00030	-.02670	.04100	.02760	-.02730
4.256	4.108	.02890	-.01730	-.04930	.07830	.06610	-.08350
4.255	6.174	.03710	-.02210	-.06170	.09880	.07680	-.09900
GRADIENT		.00445	-.00382	-.00791	.01237	.00937	-.01319

RUN NO. 22/ 0 RN/L = 2.24 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
6.369	-4.073	-.00590	.00350	.01890	-.02480	.01410	-.01060
6.370	-2.035	.00330	-.00350	.00030	.00300	.03260	-.03610
6.369	.015	.01320	-.01220	-.02290	.03620	.05480	-.06700
6.366	2.074	.01950	-.02010	-.03100	.05050	.06920	-.08930
6.365	4.127	.02760	-.02200	-.04130	.06890	.07520	-.09720
GRADIENT		.00406	-.00330	-.00739	.01145	.00774	-.01104

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AMES11-019(IAB1) LVAP ORBITER ELVN-L HL SEALED

(RETH10) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 8.000 ELV-0B = 4.000
 RUDDER = .000 SPOBRK = .000
 MACH = 1.100 RN/L = 2.250

RUN NO. 29/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

BETA0	ALPHA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
.019	-6.200	.04130	.03380	-.07720	.11850	-.05620	.09000
.001	-4.091	.03830	.04120	-.07270	.11100	-.07380	.11500
-.016	-2.000	.03580	.04140	-.06740	.10320	-.07130	.11280
-.022	.085	.03040	.02850	-.05940	.08990	-.03940	.06790
-.019	2.189	.02280	.01370	-.04540	.06810	-.00190	.01570
-.014	4.274	.01310	.00220	-.02710	.04010	.02910	-.02690
.001	6.376	.01060	-.01130	-.01770	.02830	.05810	-.06930
GRADIENT		-.00303	-.00505	.00541	-.00846	.01316	-.01821

AMES11-019(IAB1) LVAP ORBITER ELVN-L HL SEALED

(RETH11) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 8.000 ELV-0B = 4.000
 RUDDER = .000 SPOBRK = .000
 MACH = 1.250 RN/L = 2.250

RUN NO. 30/ 0 RN/L = 2.27 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
-6.258	-4.078	.02200	.03260	-.04510	.06710	-.05820	.09090
-6.244	-2.027	.04170	.02790	-.08010	.12180	-.04550	.07340
-6.209	.049	.06210	.02350	-.10980	.17190	-.03260	.05600
-6.193	2.114	.06970	.01600	-.11800	.18770	-.01420	.03020
-6.181	4.175	.07670	.00680	-.12590	.20260	.00740	-.00060
GRADIENT		.00665	-.00308	-.00966	.01632	.00787	-.01096

RUN NO. 31/ 0 RN/L = 2.27 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
-4.161	-6.152	.01450	.03200	-.03370	.04830	-.05480	.08680
-4.149	-4.101	.02200	.03010	-.04160	.06360	-.04700	.07700
-4.119	.013	.05610	.01110	-.09930	.15540	-.00040	.01150
-4.090	4.141	.07020	-.00490	-.11520	.18540	.03930	-.04420
-4.088	6.203	.07640	-.01340	-.11870	.19510	.05830	-.07170
GRADIENT		.00585	-.00425	-.00893	.01477	.01047	-.01470

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AMES11-019(IAB1) LVAP ORBITER ELVN-L HL SEALED

(RETH11) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = 4.000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.250 RN/L = 2.250

RUN NO. 32/ 0 RN/L = 2.27 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
-2.044	-6.169	.00900	.02860	-.02580	.03480	-.04430	.07290
-2.029	-2.075	.03880	.01130	-.06850	.10720	-.00040	.01170
-2.008	2.060	.06120	-.00600	-.10130	.16250	.04310	-.04910
-1.995	6.179	.06890	-.01960	-.10330	.17220	.07450	-.09410
	GRADIENT	.00542	-.00418	-.00793	.01337	.01052	-.01470

RUN NO. 33/ 0 RN/L = 2.27 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
.066	-6.174	.00850	.02020	-.01600	.02450	-.02330	.04340
.072	-4.124	.02420	.01130	-.04350	.06780	-.00060	.01190
.075	-.018	.05130	-.00770	-.08510	.13640	.04720	-.05490
.088	4.105	.06100	-.02310	-.08990	.15080	.08310	-.10630
.092	6.164	.05990	-.02840	-.08410	.14400	.09460	-.12300
	GRADIENT	.00447	-.00418	-.00564	.01008	.01017	-.01436

RUN NO. 34/ 0 RN/L = 2.27 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
1.116	-6.171	.00840	.01510	-.01350	.02190	-.01010	.02530
1.120	-2.081	.03940	-.00450	-.06490	.10430	.03950	-.04400
1.132	2.044	.05710	-.02080	-.08850	.14560	.07720	-.09800
1.141	6.158	.05540	-.03320	-.07480	.13020	.10490	-.13820
	GRADIENT	.00429	-.00395	-.00572	.01001	.00914	-.01309

RUN NO. 35/ 0 RN/L = 2.28 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
3.217	-6.163	.00250	.00230	-.00450	.00690	.02270	-.02040
3.218	-4.114	.01720	-.00660	-.03020	.04740	.04330	-.05000
3.223	-.012	.04430	-.02380	-.06920	.11350	.08400	-.10780
3.229	4.104	.04770	-.03810	-.06340	.11110	.11730	-.15540
3.228	6.167	.04430	-.04090	-.05450	.09880	.12420	-.16520
	GRADIENT	.00371	-.00383	-.00404	.00775	.00900	-.01282



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AMES11-019(IAB1) LVAP ORBITER ELVN-L HL SEALED

(RETH11) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 IN. YMRP = .0000 IN. YT
BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
SCALE = .0300

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = 4.000
RUDDER = .000 SPD8RK = .000
MACH = 1.250 RN/L = 2.250

RUN NO. 36/ 0 RN/L = 2.28 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
5.320	-4.097	.00920	-.01770	-.01340	.02270	.06960	-.08730
5.323	-2.054	.01650	-.02640	-.02450	.04100	.08890	-.11530
5.325	.002	.02980	-.03360	-.04200	.07170	.10670	-.14030
5.323	2.067	.03690	-.03790	-.04790	.08470	.11680	-.15470
5.325	4.125	.03470	-.04360	-.03980	.07450	.13360	-.17720
	GRADIENT	.00347	-.00308	-.00370	.00716	.00758	-.01066

AMES11-019(IAB1) LVAP ORBITER ELVN-L HL SEALED

(RETH12) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 IN. YMRP = .0000 IN. YT
BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
SCALE = .0300

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = .000
RUDDER = .000 SPD8RK = .000
MACH = 1.400 RN/L = 2.250

RUN NO. 0/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
-6.305	-4.079	.04380	.03130	-.08580	.12960	-.05450	.08590
-6.288	-2.026	.05370	.02520	-.09920	.15300	-.04120	.06640
-6.273	.028	.06010	.01770	-.10610	.16620	-.02470	.04240
-6.241	2.117	.06260	.00830	-.10660	.16920	-.00370	.01200
-6.229	4.174	.06410	.00260	-.10560	.16980	.00820	-.00550
	GRADIENT	.00240	-.00360	-.00227	.00467	.00789	-.01149

RUN NO. 0/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
-4.192	-6.158	.03570	.02850	-.06970	.10540	-.04490	.07340
-4.180	-4.103	.03930	.01980	-.07170	.11090	-.02590	.04570
-4.157	-.002	.05520	.00390	-.09280	.14800	.01140	-.00750
-4.134	4.138	.05560	-.00760	-.08670	.14230	.03540	-.04300
-4.123	6.209	.05510	-.00550	-.08100	.13610	.04050	-.04600
	GRADIENT	.00197	-.00332	-.00181	.00380	.00744	-.01076

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AMES11-019(IAB1) LVAP ORBITER ELVN-L HL SEALED

(RETH12) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 8.000 ELV-0B = .000
 RUDDER = .000 SPOBRK = .000
 MACH = 1.400 RN/L = 2.250

RUN NO. 0/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
-2.103	-6.173	.02520	.02160	-.04600	.07120	-.02680	.04840
-2.089	-2.072	.04450	.00460	-.07340	.11790	.01200	-.00740
-2.053	2.068	.04960	-.00930	-.07420	.12370	.04400	-.05330
-2.034	6.180	.04350	-.00750	-.05580	.09930	.05600	-.06350
	GRADIENT	.00123	-.00336	-.00019	.00140	.00773	-.01109

RUN NO. 0/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
.003	-6.180	.01820	.01450	-.03230	.05040	-.01200	.02660
.006	-4.126	.02910	.00630	-.04700	.07610	.00890	-.00260
.015	-.027	.03990	-.00810	-.05730	.09720	.04240	-.05050
.024	4.105	.03320	-.01460	-.03710	.07040	.05970	-.07430
.038	6.165	.03020	-.01100	-.02530	.05550	.06410	-.07510
	GRADIENT	.00050	-.00254	.00121	-.00070	.00617	-.00871

RUN NO. 0/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
2.130	-6.171	.01620	.00610	-.02560	.04180	.00850	-.00240
2.133	-2.078	.03390	-.00890	-.04570	.07960	.04390	-.05270
2.141	2.056	.03080	-.01760	-.03010	.06090	.06340	-.08100
2.152	6.169	.01570	-.02190	.00180	.01380	.07460	-.09650
	GRADIENT	-.00075	-.00210	.00377	-.00452	.00472	-.00685

RUN NO. 0/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
4.219	-6.158	.01210	-.00400	-.01450	.02670	.03070	-.03470
4.218	-4.108	.02040	-.00960	-.02500	.04540	.04510	-.05470
4.224	-.013	.02500	-.02080	-.02010	.04500	.07160	-.09250
4.226	4.116	.01170	-.02250	.00950	.00220	.08520	-.10780
4.218	6.193	.00710	-.02800	.02190	-.01480	.09030	-.11830
	GRADIENT	-.00106	-.00157	.00420	-.00526	.00487	-.00645



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AMES11-019(1A81) LVAP ORBITER ELVN-L HL SEALED

(RETH12) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 IN. YMRP = .0000 IN. YT
BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
SCALE = .0300

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = .000
RUDDER = .000 SPDBRK = .000
MACH = 1.400 RN/L = 2.250

RUN NO. 0/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
6.323	-4.082	.01230	-.01800	-.00970	.02190	.06400	-.08210
6.327	-2.045	.01300	-.02420	-.00610	.01910	.07810	-.10220
6.326	.008	.01670	-.02850	-.00450	.02130	.08890	-.11740
6.323	2.079	.01160	-.03060	.00670	.00490	.08530	-.12590
6.317	4.142	.00660	-.03300	.01950	-.01290	.09960	-.13260
	GRADIENT	-.00062	-.00177	.00376	-.00408	.00429	-.00606

AMES11-019(1A81) LVAP ORBITER ELVN-L HL SEALED

(RETH13) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 IN. YMRP = .0000 IN. YT
BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
SCALE = .0300

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = .000
RUDDER = .000 SPDBRK = .000
MACH = .600 RN/L = 2.250

RUN NO. 42/ 0 RN/L = 2.26 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
-6.055	-.005	.01990	.02110	-.02700	.04690	-.05440	.07550
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 41/ 0 RN/L = 2.26 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
-4.020	-4.064	.01190	.01910	-.01360	.02550	-.04880	.06790
-3.985	.001	.02080	.01950	-.02920	.05000	-.05050	.07010
-3.974	4.077	.03300	.01980	-.05240	.06540	-.05140	.07120
	GRADIENT	.00259	.00009	-.00477	.00736	-.00032	.00041

RUN NO. 37/ 0 RN/L = 2.24 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
.096	-6.101	.00880	.01870	-.00870	.01750	-.04720	.06590
.098	-4.070	.00980	.01950	-.01030	.02010	-.04840	.06790
.086	-.016	.02510	.02000	-.03350	.05850	-.04890	.06890
.117	4.075	.03490	.01980	-.05350	.08840	-.04850	.06840
.121	6.104	.03760	.01960	-.05930	.09680	-.04820	.06790
	GRADIENT	.00308	.00004	-.00530	.00838	-.00001	.00005

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AMES11-019(1A81) LVAP ORBITER ELVN-L HL SEALED

(RETH13) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = .000
 RUDDER = .000 SPD8RK = .000
 MACH = .600 RN/L = 2.250

RUN NO. 38/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
4.241	-4.062	.01330	.01850	-.01470	.02800	-.04450	.06310
4.240	-.004	.02700	.01760	-.03940	.06640	-.04270	.06030
4.238	4.073	.03540	.01620	-.05550	.09090	-.03720	.05340
	GRADIENT	.00272	-.00028	-.00501	.00773	.00090	-.00119

RUN NO. 39/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
8.385	-.010	.02600	.00950	-.03440	.06030	-.01770	.02710
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 40/ 0 RN/L = 2.27 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
10.456	.002	.02270	.00430	-.03130	.05400	-.00240	.00670
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000

AMES11-019(1A81) LVAP ORBITER ELVN-L HL SEALED

(RETH14) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = -4.000
 RUDDER = .000 SPD8RK = .000
 MACH = 1.400 RN/L = 2.250

RUN NO. 51/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
-6.312	-4.066	.05040	.04770	-.09280	.14320	-.09910	.14680
-6.295	-2.013	.06050	.04270	-.10400	.16450	-.08580	.12840
-6.258	.056	.06600	.03560	-.10990	.17590	-.06860	.10420
-6.244	2.126	.06870	.02610	-.10970	.17840	-.04570	.07180
-6.233	4.187	.06980	.01930	-.10950	.17930	-.03300	.05230
	GRADIENT	.00228	-.00356	-.00189	.00417	.00835	-.01190



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AMES11-019(IAB1) LVAP ORBITER ELVN-L HL SEALED

(RETH14) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. YT
LREF = 1297.0000 IN. YMRP = .0000 IN. YT
BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
SCALE = .0300

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = -4.000
RUDDER = .000 SPDBRK = .000
MACH = 1.400 RN/L = 2.250

RUN NO. 52/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
-4.204	-6.151	.03810	.04520	-.07100	.10920	-.08990	.13510
-4.193	-4.092	.04200	.03690	-.07350	.11550	-.06880	.10580
-4.164	.031	.06000	.02080	-.09490	.15490	-.03030	.05110
-4.142	4.151	.06040	.01600	-.08950	.14990	-.00540	.02140
-4.129	6.220	.06100	.00880	-.08540	.14640	-.00260	.01140
	GRADIENT	.00223	-.00254	-.00194	.00417	.00769	-.01024

RUN NO. 53/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
-2.093	-6.169	.02710	.03720	-.05040	.07750	-.06900	.10630
-2.078	-2.063	.04870	.02030	-.07560	.12430	-.02770	.04810
-2.057	2.077	.05390	.00660	-.07680	.13070	.00340	.00320
-2.039	6.185	.04800	.01300	-.05780	.10580	.01490	-.00190
	GRADIENT	.00126	-.00331	-.00029	.00155	.00751	-.01085

RUN NO. 54/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
.021	-6.181	.02130	.03040	-.03310	.05440	-.05230	.08280
.023	-4.121	.03030	.02070	-.04610	.07640	-.02890	.04960
.027	-2.070	.04150	.01290	-.05990	.10140	-.00980	.02280
.027	-.007	.04410	.00710	-.05880	.10300	.00330	.00380
.038	4.112	.03830	.00130	-.04010	.07850	.01940	-.01810
.051	6.174	.03370	.00230	-.02920	.06290	.02440	-.02210
	GRADIENT	.00072	-.00229	.00115	-.00041	.00568	-.00797

RUN NO. 55/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
2.131	-6.166	.01850	.02020	-.02650	.04490	-.02750	.04770
2.132	-2.063	.03670	.00580	-.04900	.08570	.00860	-.00280
2.136	2.064	.03440	-.00100	-.03580	.07020	.02580	-.02690
2.148	6.175	.02100	.00110	-.00230	.02340	.03600	-.03490
	GRADIENT	-.00056	-.00165	.00320	-.00376	.00417	-.00584

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OF POOR QUALITY

DATE 17 OCT 75

TABIA - FORCE SOURCE DATA TABULATION

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AMES11-019(1A81) LVAP ORBITER ELVN-L HL SEALED

(RETH14) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 8.000 ELV-08 = -4.000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.400 RN/L = 2.250

RUN NO. 56/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
4.219	-6.143	.01450	.00890	-.01560	.03010	-.00220	.01110
4.218	-4.089	.02140	.00390	-.02560	.04700	.01330	-.00940
4.218	.008	.02800	-.00560	-.02500	.05290	.03690	-.04250
4.217	4.126	.01400	-.01070	.00830	.00570	.04980	-.06050
4.218	6.196	.01100	-.01220	.01820	-.00710	.05530	-.06740
	GRADIENT	-.00090	-.00178	.00413	-.00503	.00444	-.00622

RUN NO. 57/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
6.327	-4.066	.01440	-.00480	-.01030	.02470	.03480	-.03960
6.327	-2.028	.01570	-.01030	-.00870	.02430	.04780	-.05810
6.325	.021	.01840	-.01400	-.00730	.02570	.05740	-.07140
6.323	2.091	.01360	-.01520	.00610	.00740	.06350	-.07870
6.316	4.148	.00800	-.01740	.01990	-.01190	.06710	-.08450
	GRADIENT	-.00073	-.00146	.00366	-.00439	.00391	-.00537

AMES11-019(1A81) LVAP ORBITER ELVN-L HL SEALED

(RETH15) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 8.000 ELV-08 = 6.000
 RUDDER = .000 SPDBRK = .000
 MACH = .900 RN/L = 2.250

RUN NO. 65/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
-6.170	-4.069	-.01490	.00510	.04860	-.06340	.00560	-.00050
-6.165	-2.034	-.00800	.00580	.03560	-.04350	-.00480	.01050
-6.129	.031	.00450	.00760	.01260	-.00810	-.00930	.01690
-6.118	2.093	.01050	.01030	.00140	.00910	-.01450	.02490
-6.110	4.138	.01480	.01160	-.01060	.02540	-.01810	.02970
	GRADIENT	.00379	.00085	-.00743	.01121	-.00278	.00364



DATE 17 OCT 75

1A81A - FORCE SOURCE DATA TABULATION

AMES11-019(1A81) LVAP ORBITER ELVN-L HL SEALED

(RETH15) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 IN. YMRP = .0000 IN. YT
BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
SCALE = .0300

PARAMETRIC DATA

ELV-18 = 8.000 ELV-08 = 6.000
RUDDER = .000 SPOBRK = .000
HACH = .900 RN/L = 2.250

RUN NO. 66/ 0 RN/L = 2.26 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
-4.082	-6.131	-.01560	.00990	.05380	-.06940	.02040	-.01050
-4.072	-4.082	-.01310	.00550	.04780	-.06090	.00330	.00220
-4.058	.016	.01000	.00970	.00370	.00620	-.01240	.02210
-4.039	4.120	.02000	.01380	-.01770	.03770	-.02360	.03750
-4.035	6.171	.02860	.01280	-.03700	.06560	-.02290	.03570
	GRADIENT	.00404	.00101	-.00799	.01202	-.00328	.00430

RUN NO. 67/ 0 RN/L = 2.26 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
-2.011	-6.134	-.01320	.00960	.04820	-.06140	.01960	-.00990
-2.000	-2.052	.00140	.00700	.02380	-.02240	-.00600	.01300
-1.985	2.064	.02210	.01230	-.01750	.03960	-.02080	.03310
-1.973	6.153	.03410	.01360	-.04580	.07990	-.02560	.03920
	GRADIENT	.00503	.00129	-.01003	.01506	-.00360	.00488

RUN NO. 68/ 0 RN/L = 2.26 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
.079	-6.140	-.01050	.00890	.04290	-.05340	.01240	-.00360
.084	-4.099	-.00450	.00630	.03620	-.04070	-.00080	.00710
.085	-.004	.02410	.01110	-.01480	.03890	-.01610	.02720
.097	4.092	.03500	.01160	-.04340	.07850	-.01590	.02760
.102	6.138	.04570	.01160	-.06080	.10650	-.01730	.02880
	GRADIENT	.00482	.00065	-.00972	.01455	-.00184	.00250

RUN NO. 69/ 0 RN/L = 2.26 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
2.176	-6.134	-.00350	.00900	.03470	-.03820	-.00090	.00990
2.181	-2.059	.01280	.01250	.00400	.00870	-.01310	.02570
2.185	2.048	.03630	.01140	-.03630	.07260	-.01020	.02160
2.183	6.140	.04700	.00740	-.06250	.10950	-.00130	.00860
	GRADIENT	.00572	-.00027	-.00981	.01556	.00071	-.00100

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AMES11-019(IAB1) LVAP ORBITER ELVN-L HL SEALED

(RETH15) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 8.000 ELV-0B = 6.000
 RUDDER = .000 SPDBRK = .000
 MACH = .900 RN/L = 2.250

RUN NO. 70/ 0 RN/L = 2.26 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
4.251	-6.118	-.00170	.01150	.02890	-.03060	.01060	.00090
4.253	-4.076	.00120	.01040	.02220	-.02100	.00740	.00300
4.252	.002	.03100	.01130	-.02510	.05610	.01120	.00010
4.253	4.095	.04330	.01390	-.04670	.09000	.02950	-.01560
4.245	6.148	.05040	.01690	-.06130	.11170	.04450	-.02760
	GRADIENT	.00515	.00043	-.00843	.01358	.00271	-.00228

RUN NO. 71/ 0 RN/L = 2.26 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
5.304	-4.072	.00600	.01320	.01980	-.01380	.01880	-.00550
5.305	-2.036	.01880	.01340	-.00620	.02500	.02080	-.00740
5.302	.007	.02860	.01400	-.02260	.05120	.02760	-.01360
5.302	2.065	.03270	.01760	-.02860	.06140	.04130	-.02370
5.298	4.107	.04020	.01880	-.04180	.08200	.05390	-.03510
	GRADIENT	.00402	.00075	-.00711	.01114	.00443	-.00369

AMES11-019(IAB1) LVAP ORBITER ELVN-L HL SEALED

(RETH16) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 8.000 ELV-0B = 6.000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.100 RN/L = 2.250

RUN NO. 58/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
-6.246	-4.078	.01080	.01800	-.02150	.03220	-.02310	.04110
-6.234	-2.033	.02360	.01800	-.04540	.06900	-.02340	.04140
-6.194	.038	.03860	.01770	-.07060	.10920	-.02280	.04050
-6.181	2.103	.04730	.01890	-.08650	.13370	-.02600	.04490
-6.169	4.159	.05350	.02380	-.09650	.15000	-.03660	.06040
	GRADIENT	.00529	.00061	-.00927	.01457	-.00144	.00204

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1A81A - FORCE SOURCE DATA TABULATION

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AMES11-019(1A81) LVAP ORBITER ELVN-L HL SEALED

(RETH16) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 8.000 ELV-0B = 6.000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.100 RN/L = 2.250

RUN NO. 59/ 0		RN/L = 2.25		GRADIENT INTERVAL = -5.00/ 5.00			
ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
-4.136	-6.157	-.00770	.01850	.00910	-.01680	-.02610	.04460
-4.125	-4.102	.00530	.02060	-.01340	.01880	-.02980	.05040
-4.108	.014	.03570	.02370	-.06620	.10200	-.03760	.06130
-4.082	4.132	.04460	.02630	-.08250	.12710	-.03580	.06220
-4.074	6.189	.05250	.02060	-.09360	.14610	-.01950	.04010
	GRADIENT	.00477	.00069	-.00839	.01315	-.00073	.00143

RUN NO. 60/ 0		RN/L = 2.25		GRADIENT INTERVAL = -5.00/ 5.00			
ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
-2.033	-6.165	-.00750	.02130	.01160	-.01910	-.03380	.05510
-2.021	-2.073	.01830	.02670	-.03580	.05410	-.04080	.06740
-2.004	2.061	.03580	.02100	-.06750	.10330	-.02360	.04460
-1.987	6.166	.04530	.01890	-.08210	.12740	.03250	-.01360
	GRADIENT	.00423	-.00138	-.00767	.01190	.00416	-.00552

RUN NO. 61/ 0		RN/L = 2.25		GRADIENT INTERVAL = -5.00/ 5.00			
ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
.070	-6.166	-.00640	.02320	.01360	-.02000	-.03630	.05950
.076	-4.111	.00310	.02330	-.00540	.00850	-.03290	.05620
.084	-.007	.02670	.01570	-.05140	.07810	-.01000	.02580
.099	4.099	.03460	.02360	-.06230	.09690	.06190	-.03840
.104	6.156	.03970	.03010	-.07020	.10980	.09560	-.06550
	GRADIENT	.00384	.00004	-.00693	.01077	.01155	-.01152

RUN NO. 62/ 0		RN/L = 2.25		GRADIENT INTERVAL = -5.00/ 5.00			
ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
2.179	-6.160	-.00850	.01690	.01890	-.02740	-.01950	.03640
2.183	-2.076	.01140	.01290	-.02080	.03220	.00970	.00320
2.194	2.052	.02340	.02910	-.04130	.06470	.09130	-.06220
2.199	6.158	.03550	.03850	-.06070	.09620	.14770	-.10920
	GRADIENT	.00291	.00392	-.00497	.00787	.01977	-.01584

AMES11-019(1A81) LVAP ORBITER ELVN-L HL SEALED

(RETH16) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 8.000 ELV-08 = 6.000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.100 RN/L = 2.250

RUN NO. 63/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
4.246	-6.141	-.01070	.00940	.02600	-.03660	.00530	.00410
4.252	-4.091	-.00780	.01500	.01980	-.02760	.02540	-.01030
4.259	-.003	.00980	.02990	-.01760	.02750	.10160	-.07160
4.261	4.109	.02060	.04130	-.03320	.05380	.16620	-.12490
4.259	6.170	.03400	.03830	-.05660	.09050	.17290	-.13460
	GRADIENT	.00346	.00321	-.00646	.00992	.01717	-.01397

RUN NO. 64/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
6.364	-4.074	-.00900	.02090	.02540	-.03440	.06320	-.04230
6.367	-2.043	-.00070	.02650	.00990	-.01060	.09390	-.06740
6.367	.008	.00860	.03290	-.01060	.01920	.13200	-.09910
6.364	2.073	.01640	.03400	-.02750	.04390	.14990	-.11590
6.359	4.124	.02340	.03760	-.03370	.05720	.17260	-.13500
	GRADIENT	.00399	.00199	-.00758	.01159	.01339	-.01140

AMES11-019(1A81) LVAP ORBITER ELVN-L HL SEALED

(RETH17) (14 OCT 75)

REFERENCE DATA

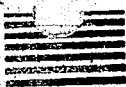
SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 10.000 ELV-08 = 4.000
 RUDDER = .000 SPDBRK = .000
 MACH = .900 RN/L = 2.250

RUN NO. 65/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
-6.178	-4.055	-.01700	.00600	.05610	-.07310	-.00850	.01450
-6.167	-2.018	-.00710	.01000	.03900	-.04610	-.01900	.02900
-6.142	.046	.00760	.01390	.01030	-.00270	-.02800	.04200
-6.130	2.104	.01260	.01680	.00110	.01150	-.03460	.05140
-6.123	4.151	.01610	.01940	-.00610	.02220	-.03970	.05910
	GRADIENT	.00418	.00164	-.00790	.01209	-.00380	.00543



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TABIA - FORCE SOURCE DATA TABULATION

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AMES11-019(1A81) LVAP ORBITER ELVN-L HL SEALED

(RETH17) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 IN. YMRP = .0000 IN. YT
BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
SCALE = .0300

PARAMETRIC DATA

ELV-18 = 10.000 ELV-08 = 4.000
RUDDER = .000 SPDBRK = .000
MACH = .900 RN/L = 2.250

RUN NO. 86/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
-4.089	-6.119	-.01630	.00470	.05450	-.07080	-.00400	.00870
-4.079	-4.073	-.01170	.00820	.04730	-.05890	-.01260	.02080
-4.065	.030	.01610	.01510	-.00150	.01760	-.03040	.04560
-4.044	4.123	.02260	.01740	-.01630	.03900	-.03990	.05720
-4.041	6.175	.02790	.01680	-.02730	.05530	-.03890	.05570
	GRADIENT	.00419	.00112	-.00776	.01195	-.00333	.00444

RUN NO. 87/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
-2.003	-6.127	-.01150	.00460	.04710	-.05860	-.00400	.00860
-1.993	-2.044	.00330	.01060	.02200	-.01880	-.01960	.03010
-1.979	2.069	.02390	.01680	-.01580	.03970	-.03690	.05370
-1.967	6.153	.03200	.01570	-.03310	.06510	-.03880	.05450
	GRADIENT	.00501	.00151	-.00919	.01422	-.00421	.00574

RUN NO. 88/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
.077	-6.130	-.00840	.00670	.04230	-.05070	-.00950	.01620
.082	-4.088	-.00340	.01030	.03080	-.03430	-.01850	.02880
.083	.004	.02200	.01440	-.01190	.03390	-.03330	.04780
.096	4.096	.03470	.01310	-.02940	.06410	-.03240	.04550
.101	6.143	.03910	.01370	-.04450	.08350	-.03080	.04450
	GRADIENT	.00466	.00034	-.00736	.01202	-.00170	.00204

RUN NO. 89/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
2.172	-6.124	-.00560	.01120	.03480	-.04040	-.01730	.02650
2.177	-2.350	.01310	.01620	.00230	.01680	-.03220	.04850
2.180	2.054	.03160	.01480	-.02350	.05510	-.03150	.04630
2.179	6.141	.04160	.01120	-.04330	.08490	-.02000	.03120
	GRADIENT	.00451	-.00034	-.00629	.01079	.00017	-.00054

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IABIA - FORCE SOURCE DATA TABULATION

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AMES11-019(1A81) LVAP ORBITER ELVN-L HL SEALED

(RETH17) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = 10.000 ELV-08 = 4.000
 RUDDER = .000 SPDBRK = .000
 MACH = .900 RN/L = 2.250

RUN NO. 90/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
4.252	-6.110	-.00350	.01020	.03160	-.03510	-.01170	.02190
4.257	-4.071	.00080	.01180	.02540	-.02460	-.01510	.02690
4.252	.005	.02700	.00910	-.01510	.04210	-.01190	.02110
4.251	4.101	.03570	.00700	-.02760	.06330	.00980	-.00270
4.247	6.153	.04420	.00670	-.04350	.08770	.01580	-.00910
	GRADIENT	.00427	-.00059	-.00648	.01075	.00305	-.00362

RUN NO. 91/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
6.350	-4.053	.00220	.00810	.02900	-.02670	.00120	.00680
6.348	-2.025	.01590	.01020	.00860	.00730	.01110	-.00090
6.344	.018	.02370	.01380	-.00150	.02510	.03180	-.01800
6.340	2.076	.02410	.01580	-.00190	.02590	.05570	-.03990
6.335	4.123	.03200	.01710	-.01540	.04750	.05520	-.03810
	GRADIENT	.00331	.00115	-.00485	.00816	.00746	-.00630

AMES11-019(1A81) LVAP ORBITER ELVN-L HL SEALED

(RETH18) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = 10.000 ELV-08 = 4.000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.100 RN/L = 2.250

RUN NO. 92/ 0 RN/L = 2.26 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
-6.223	.032	.02860	.03080	-.04600	.07460	-.05260	.08350
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 93/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
-4.129	-4.089	-.00390	.03450	.01090	-.01480	-.06110	.09560
-4.111	.021	.02510	.03800	-.03980	.06500	-.06930	.10730
-4.085	4.129	.03540	.03780	-.05620	.09160	-.06390	.10170
	GRADIENT	.00478	.00040	-.00817	.01295	-.00034	.00074



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AMES11-019(IAB1) LVAP ORBITER ELVN-L HL SEALED

(RETH18) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 978.0000 IN. XT
LREF = 1297.0000 IN. YMRP = .0000 IN. YT
BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
SCALE = .0300

PARAMETRIC DATA

ELV-18 = 10.000 ELV-08 = 4.000
RUDDER = .000 SPDBRK = .000
MACH = 1.100 RN/L = 2.250

RUN NO. 94/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
.045	-6.157	-.01390	.03700	.03170	-.04570	-.06800	.10510
.049	-4.107	-.00690	.03730	.01890	-.02580	-.06500	.10230
.052	-.012	.01850	.02830	-.02800	.04650	-.04090	.06920
.069	4.104	.02300	.01360	-.03580	.05870	.00860	.00500
.076	6.162	.02890	.02060	-.04320	.07200	.04650	-.02590
	GRADIENT	.00364	-.00289	-.00666	.01028	.00897	-.01185

RUN NO. 95/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
4.250	-4.085	-.01660	.01560	.03970	-.05630	-.01260	.02830
4.253	.000	.00470	.02120	-.00200	.00660	.05190	-.03080
4.255	4.115	.01290	.03390	-.01240	.02530	.12740	-.09360
	GRADIENT	.00360	.00223	-.00635	.00994	.01707	-.01487

RUN NO. 96/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
6.356	.011	.00330	.02800	.00640	-.00310	.09810	-.07010
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000

AMES11-019(IAB1) LVAP ORBITER ELVN-L HL SEALED

(RETH19) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
LREF = 1297.0000 IN. YMRP = .0000 IN. YT
BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
SCALE = .0300

PARAMETRIC DATA

ELV-18 = 10.000 ELV-08 = 4.000
RUDDER = .000 SPDBRK = .000
MACH = 1.250 RN/L = 2.250

RUN NO. 97/ 0 RN/L = 2.27 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
-4.189	-4.086	.01180	.02910	-.01830	.03000	-.04700	.07610
-4.149	.018	.04260	.01030	-.06640	.10890	.00460	.00570
-4.104	4.148	.05440	.02150	-.08320	.13760	.06860	-.04710
	GRADIENT	.00517	-.00092	-.00788	.01306	.01404	-.01496

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AMES11-019(IAB1) LVAP ORBITER ELVN-L HL SEALED

(RETH19) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 978.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = 10.000 ELV-0B = 4.000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.250 RN/L = 2.250

RUN NO. 98/ 0 RN/L = 2.27 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
.052	-4.119	.01220	.00970	-.01580	.02790	.00080	.00890
.055	-.007	.03700	.02390	-.05060	.08770	.08070	-.05670
.067	4.107	.04490	.03290	-.05770	.10260	.13990	-.10700
	GRADIENT	.00398	.00282	-.00509	.00908	.01691	-.01409

RUN NO. 99/ 0 RN/L = 2.27 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
4.242	-4.090	.00260	.02660	.00350	-.00090	.10060	-.07400
4.243	.004	.02390	.03740	-.02470	.04860	.16660	-.12920
4.242	4.125	.02640	.04430	-.02010	.04660	.21330	.16910
	GRADIENT	.00289	.00215	-.00287	.00578	.01372	-.01157

AMES11-019(IAB1) LVAP ORBITER ELVN-L HL SEALED

(RETH20) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = .000 ELV-0B = .000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.400 RN/L = 2.250

RUN NO. 72/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
.017	-6.173	.08500	.01930	-.16480	.24970	-.02170	.04100
.018	-4.117	.10200	.00930	-.18990	.29190	-.00060	.00980
.024	-2.072	.11800	.01510	-.21320	.33120	.03250	-.01740
.023	-.006	.12760	.01920	-.22390	.35150	.05600	-.03680
.030	2.059	.12940	.02150	-.22550	.35480	.07310	-.05160
.032	4.116	.12520	.02390	-.21350	.33860	.08810	-.06410
.044	6.175	.12290	.02670	-.20590	.32880	.09810	-.07140
	GRADIENT	.00280	.00173	-.00289	.00568	.01058	-.00883

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AMES11-019(IAB1) LVAP ORBITER ELVN-L HL SEALED

(RETH21) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = .000 ELV-08 = .000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.250 RN/L = 2.250

RUN NO. 74/ 0 RN/L = 2.28 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
.038	-6.160	.08170	.05110	-.16980	.25140	-.09130	.14240
.045	-4.114	.09940	.04160	-.19830	.29770	-.06870	.11020
.047	-2.070	.11910	.02990	-.22880	.34790	-.04090	.07080
.054	-.008	.13340	.02000	-.24930	.38270	-.01960	.03960
.082	2.056	.14560	.01110	-.26720	.41280	.00310	.00800
.087	4.111	.15310	.01610	-.27670	.42980	.03300	-.01690
.091	6.170	.15790	.01890	-.27950	.43740	.05370	-.03480
	GRADIENT	.00651	-.00339	-.00948	.01599	.01202	-.01540

AMES11-019(IAB1) LVAP ORBITER ELVN-L HL SEALED

(RETH22) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-1B = .000 ELV-08 = .000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.100 RN/L = 2.250

RUN NO. 76/ 0 RN/L = 2.26 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
.039	-6.151	.07220	.07550	-.15800	.23020	-.15430	.22980
.042	-4.101	.09290	.07430	-.19410	.28700	-.14970	.22400
.047	-2.062	.11160	.06810	-.22770	.33940	-.13470	.20280
.053	-.007	.12920	.05980	-.25970	.38890	-.11280	.17260
.079	2.058	.13630	.04960	-.26850	.40480	-.08610	.13570
.083	4.107	.14620	.04360	-.28690	.43310	-.07180	.11540
.090	6.163	.15660	.03480	-.30570	.46230	-.05130	.08610
	GRADIENT	.00639	-.00389	-.01102	.01741	.00995	-.01385

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AMES11-019(IAB1) LVAP ORBITER ELVN-L HL SEALED

(RETH23) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000
 RUDDER = .000 SPOBRK = .000
 MACH = 1.400 RN/L = 2.250

RUN NO. 73/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

BETA0	ALPHA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
.033	-6.272	.15470	.02360	-.28430	.43900	-.03700	.06060
.011	-4.160	.14680	.00890	-.26470	.41150	-.00180	.01070
-.007	-2.069	.13720	.01490	-.24370	.38090	.03220	-.01730
-.022	.024	.12730	.01880	-.22360	.35090	.05520	-.03640
-.018	2.134	.11990	.02240	-.20670	.32660	.07890	-.05650
-.008	4.218	.10900	.02730	-.18430	.29330	.10940	-.08210
-.002	5.273	.10070	.02980	-.17110	.27180	.12540	-.09560
	GRADIENT	-.00443	.00211	.00944	-.01387	.01284	-.01072

AMES11-019(IAB1) LVAP ORBITER ELVN-L HL SEALED

(RETH24) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000
 RUDDER = .000 SPOBRK = .000
 MACH = 1.250 RN/L = 2.250

RUN NO. 75/ 0 RN/L = 2.28 GRADIENT INTERVAL = -5.00/ 5.00

BETA0	ALPHA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
.028	-6.248	.15450	.05420	-.29480	.44930	-.10410	.15830
.001	-4.131	.14530	.04210	-.27760	.42290	-.06990	.11200
-.012	-2.038	.13860	.03090	-.26170	.40040	-.04510	.07600
-.024	.059	.13370	.01950	-.24960	.38330	-.02000	.03950
-.019	2.162	.12650	.01390	-.23450	.36100	.01490	-.00100
-.013	4.248	.10920	.02070	-.20300	.31220	.06160	-.04090
.001	6.352	.09920	.02570	-.18200	.28120	.10210	-.07640
	GRADIENT	-.00402	-.00285	.00842	-.01244	.01541	-.01827

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AMES11-019(IAB1) LVAP ORBITER ELVN-L HL SEALED

(RETH25) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XHRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YHRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZHRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000
 RUDDER = .000 SPDBRK = .000
 MACH = 1.100 RN/L = 2.250

RUN NO. 77/ 0 RN/L = 2.26 GRADIENT INTERVAL = -5.00/ 5.00

BETA0	ALPHA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
.018	-6.220	.13580	.07210	-.27250	.40640	-.14430	.21630
.000	-4.109	.13420	.07670	-.26870	.40300	-.15710	.23380
-.015	-2.020	.13590	.07430	-.26930	.40520	-.14950	.22380
-.024	.066	.13180	.06190	-.26310	.39490	-.11830	.18020
-.019	2.167	.11730	.04450	-.23840	.35570	-.07440	.11890
-.015	4.256	.10260	.02930	-.20950	.31220	-.04090	.07020
.000	6.355	.08970	.01220	-.18630	.27600	-.00490	.01710
	GRADIENT	-.00391	-.00596	.00714	-.01105	.01470	-.02066

AMES11-019(IAB1) LVAP ORBITER ELVN-L HL SEALED

(RETH26) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XHRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YHRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZHRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000
 RUDDER = .000 SPDBRK = .000
 MACH = .900 RN/L = 2.250

RUN NO. 78/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
-6.182	-4.055	.04540	.03400	-.10040	.14580	-.08650	.12050
-6.173	-2.019	.05790	.03930	-.12930	.18720	-.10380	.14310
-6.160	.037	.06660	.03660	-.14940	.21600	-.10860	.14730
-6.132	2.107	.07600	.04120	-.17150	.24750	-.11240	.15360
-6.123	4.151	.08090	.04100	-.18170	.26260	-.11200	.15300
	GRADIENT	.00434	.00077	-.00997	.01431	-.00290	.00367

RUN NO. 79/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
-4.098	-6.117	.03180	.02690	-.07060	.10240	-.06890	.09580
-4.086	-4.069	.04160	.03230	-.09160	.13350	-.08370	.11610
-4.071	.025	.06380	.03730	-.14950	.21540	-.10410	.14140
-4.050	4.127	.08030	.03580	-.18050	.26080	-.10040	.13620
-4.048	6.181	.08830	.03510	-.19880	.28710	-.09840	.13350
	GRADIENT	.00472	.00043	-.01082	.01553	-.00204	.00245

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IABIA - FORCE SOURCE DATA TABULATION

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AMES11-019(IAB1) LVAP ORBITER ELVN-L HL SEALED

(RETH28) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 978.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000
 RUDDER = .000 SPDGRK = .000
 MACH = .900 RN/L = 2.250

RUN NO. 80/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
-2.011	-6.126	.03170	.02490	-.06500	.09670	-.06420	.08910
-1.998	-2.045	.05140	.03330	-.11960	.16700	-.09080	.12410
-1.984	2.071	.07370	.03440	-.18570	.23940	-.09470	.12910
-1.975	6.155	.08870	.03450	-.20100	.29970	-.09400	.12850
	GRADIENT	.00542	.00027	-.01217	.01759	-.00095	.00121

RUN NO. 81/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
.071	-6.134	.02830	.02700	-.06390	.09220	-.06760	.09450
.076	-4.088	.03760	.03040	-.08450	.12210	-.08120	.11160
.079	.002	.06440	.03470	-.15020	.21460	-.09300	.12770
.084	4.101	.07860	.02900	-.17920	.25780	-.07890	.10790
.089	6.149	.08540	.02810	-.19580	.28110	-.07660	.10460
	GRADIENT	.00501	-.00017	-.01158	.01657	.00028	-.00045

RUN NO. 82/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
2.166	-6.124	.03210	.03040	-.07050	.10260	-.08390	.11430
2.174	-2.053	.05380	.02980	-.12350	.17730	-.08180	.11150
2.176	2.058	.07380	.02750	-.16780	.24160	-.07350	.10100
2.176	6.147	.08970	.02960	-.20280	.29250	-.07450	.10410
	GRADIENT	.00486	-.00056	-.01078	.01554	.00202	-.00295

RUN NO. 83/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
4.242	-6.110	.03420	.02560	-.07780	.11190	-.06960	.09530
4.246	-4.074	.04780	.02720	-.10610	.15400	-.07120	.09830
4.244	.001	.06830	.02880	-.15880	.22710	-.07090	.09970
4.243	4.105	.08090	.02920	-.18070	.26160	-.06650	.09570
4.240	6.155	.08470	.02940	-.19030	.27490	-.06230	.09170
	GRADIENT	.00405	.00024	-.00912	.01315	.00058	-.00032

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AMES11-019(1A81) LVAP ORBITER ELVN-L HL SEALED

(RETH26) (14 OCT 75)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 976.0000 IN. XT
 LREF = 1297.0000 IN. YMRP = .0000 IN. YT
 BREF = 1297.0000 IN. ZMRP = 400.0000 IN. ZT
 SCALE = .0300

PARAMETRIC DATA

ELV-18 = .000 ELV-08 = .000
 RUDDER = .000 SPOBRK = .000
 MACH = .900 RN/L = 2.250

RUN NO. 84/ 0 RN/L = 2.25 GRADIENT INTERVAL = -5.00/ 5.00

ALPHA0	BETA0	CHE1	CHE0	CHM1	CHM2	CHM3	CHM4
6.337	-4.058	.04870	.02920	-.11020	.15890	-.06370	.09290
6.337	-2.026	.05770	.02540	-.12950	.18720	-.05760	.08310
6.335	.015	.06730	.02300	-.14780	.21510	-.05470	.07770
6.332	2.074	.07060	.02050	-.15330	.22380	-.04890	.06930
6.327	4.123	.06980	.02150	-.15500	.22480	-.04350	.06500
	GRADIENT	.00269	-.00099	-.00554	.00822	.00240	-.00340